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TRANSACTIONS

OF THE

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Massachusetts Horticultural Society,

FOR THE YEAR 1891.

PART II.

BOSTON:
PRINTED FOR THE SOCIETY.
1892.

☞ SEE LAST PAGE OF COVER.

TRANSACTIONS

OF THE

Massachusetts Horticultural Society,

FOR THE YEAR 1891.

PART II.

BOSTON:
PRINTED FOR THE SOCIETY.
1892.

TRANSACTIONS

OF THE

Massachusetts Horticultural Society.

BUSINESS MEETING.

SATURDAY, May 2, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Charles H. B. Breck, from the Committee appointed on the 21st of March to prepare a memorial of John B. Russell, read the following report, which was unanimously adopted:

The Committee appointed at the meeting on the 21st of March to prepare a memorial of the late John B. Russell, respectfully report:

The Massachusetts Horticultural Society has viewed with deep emotion the departure, one by one, of those who laid its foundations and watched over its early years. As they have from time to time been taken from us the Society has given expression to its feelings in fitting testimonials, has placed these testimonials on its records, and its members have embalmed in their hearts the memories of these worthies.

We have now to perform this solemn duty for the last time with respect to the founders of the Society. On the 11th of March John B. Russell, the last survivor of the sixteen gentlemen who, on the 24th of February, 1829, met in this city to form a horticultural society, and the last of the eight named in the Act of Incorporation, died at his home in Indianapolis, Indiana, in the ninetieth year of his age.

Mr. Russell was a printer by trade, and in 1824 purchased the

"New England Farmer," and conducted it, in connection with a seed business, at Nos. 51 and 52 North Market Street, still carried on at the same place. This room being centrally located, spacious, and attractive, became a favorite resort for both the professional and amateur cultivators of Boston and vicinity, where they compared views in regard to culture, crops, etc., and it was here that the idea of a horticultural society was first started, Mr. Russell suggesting it to the numerous visitors. It was largely through his influence that the idea was carried out in practice, and when the Society was formed it occupied a room above his store and he was appointed its general agent, and attended to all its business gratuitously. He had great opportunities for aiding the new enterprise, which he never failed to improve, and he was excelled by no one as an active founder and working member, until his removal from the city. He was Chairman of a Committee appointed at the first meeting to obtain subscribers to the Society, and upon its organization was elected a member of the Council, and of the Committee on the Products of the Kitchen Garden. The proceedings of the Society and the reports of its exhibitions were published from week to week by Mr. Russell in the "Farmer," which continued to be its organ until its publication ceased in 1846.

In 1832 Mr. Russell sold his interest in the "Farmer" and the seed store, and engaged in the publishing business. He afterwards removed to Cincinnati, Ohio, and later to Washington, D.C.; being, in 1868, appointed Librarian of the United States Department of Agriculture, which position he retained until increasing age and infirmities compelled his retirement.

In 1847 he was elected a Corresponding Member of this Society. In 1870 he prepared for Tilton's "Journal of Horticulture" three articles, entitled "Reminiscences of the Massachusetts Horticultural Society," which were exceedingly interesting. The printed TRANSACTIONS of the Society record that he was present at the Meeting for Discussion on the 12th of February, 1881; was introduced to the meeting by President Hayes; thanked the President for the kind words in which he had introduced him, and expressed the pleasure he felt in once more attending a meeting of the Society. His interest in the Society continued to the last; more than seven years afterwards, in acknowledging the receipt of the TRANSACTIONS of the Society, he said, "I still read them with interest, though in my eighty-eighth year."

Though the death of Mr. Russell was not a surprise to those who were aware of his advanced years and physical infirmities, he will be mourned by all who knew him, and by none more than by the members of this Society, which he served with such activity and faithfulness, and to whom the portrait which hangs in our hall now possesses a double value. As we look upon it may we be incited so to imitate his example that those who follow us may cherish our memories as we cherish his.

The Committee recommend that this memorial be entered upon the records of the Society, and that a copy be sent to the family of Mr. Russell, with the assurance of the sympathy of the Society in their bereavement.

JOHN G. BARKER,
C. H. B. BRECK, } *Committee.*
ROBERT MANNING,

The following-named persons, having been recommended by the Executive Committee for membership in the Society, were, on ballot, duly elected:

EVERETT W. RADDIN, of North Cambridge.
DUDLEY F. HUNT, of Reading.
GEORGE MURCH, of Milton.
MAURICE P. WHITE, of Roxbury.
JOHN DAVIS, of Lowell.
FRANCIS CAMPBELL, of Cambridge.
JOHN M. KEYES, of Concord.

Adjourned to Saturday, June 6.

BUSINESS MEETING.

SATURDAY, June 6, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Warren Hoyt, of Haverhill, was proposed by Thomas C. Thurlow as a member of the Society, and Miss Sarah H. Crocker, of Boston, by Mrs. Josephine L. Richards.

The Annual Report of the Committee on Gardens was read by John G. Barker, Chairman, accepted, and referred to the Committee on Publication.

The Secretary read a communication from the United States Census Office, asking for statistics of the Peach Industry of this State, which was referred to the Fruit Committee.

The following-named persons, having been recommended by the Executive Committee, were, on ballot, duly elected members of the Society:

ELIJAH A. WOOD, of West Newton.
EDWARD JACKSON HOLMES, of Boston.
CHARLES A. READ, of Manchester.
SAMUEL H. WARREN, of Weston.
EDWARD E. NORTON, of Boston.

The meeting was then dissolved.

BUSINESS MEETING.

SATURDAY, July 11, 1891.

A duly notified Stated Meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Miss Mary Sophia Walker, of Waltham, was proposed by Charles E. Richardson as a Life Member of the Society.

The revised Constitution and By-Laws, which received a majority vote at the Stated Meeting on the 4th of April, and were then entered on the records, came up for final action, and were unanimously adopted.

Jackson Dawson read a communication from the Gardeners and Florists' Club, of Boston, offering two prizes, of $100 and $50, for the first and second best mantel decorations, at the Society's Annual Exhibition of Plants and Flowers, September 1 to 4.

Also two prizes, of $75 and $50, for the first and second best ten vases of ten named varieties of Chrysanthemums, ten long-

stemmed blooms each, at the Annual Chrysanthemum Show, November 10 to 13.

It was unanimously voted that these offers be accepted, and also that, in accordance with the suggestion of the Gardeners and Florists' Club, the prizes be awarded by judges outside of Boston, specially appointed for the purpose, and that all articles offered for these prizes be designated by numbers, and that no names of contributors be placed upon them until the prizes are awarded.

It was also voted that the members of the Society, and chrysanthemum growers, be notified of the offer of these prizes.

The following-named persons, having been recommended by the Executive Committee for membership in the Society, were, on ballot, duly elected:

Miss SARAH H. CROCKER, of Boston.
WARREN H. HOYT, of Haverhill.
Mrs. ROSE BUXTON, of Peabody.
JOHN K. M. L. FARQUHAR, of Roxbury.
CHARLES W. PARKER, of Boston.

On recommendation of the Executive Committee,

SAMUEL R. PAYSON, of Boston, and
Hon. JEREMIAH RUSK, Secretary of Agriculture, Washington, D.C.,

were elected Honorary Members of the Society, and

HENRY PROBASCO, of Cincinnati,
JOHN CROUMBIE BROWN, LL.D., of Edinburgh, Scotland,
MALCOLM DUNN, of Dalkeith, Scotland, and
WILLIAM R. SMITH, Curator of the Botanic Gardens, Washington, D.C.,

were elected Corresponding Members of the Society.

Adjourned to Saturday, August 1.

BUSINESS MEETING.

SATURDAY, August 1, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

On motion of Joseph H. Woodford, it was voted that the revised Constitution and By-Laws be printed and sent to the members of the Society.

On motion of Mr. Woodford, it was voted that the thanks of the Society be presented to Messrs. Alexander Dickson & Sons, of Belfast, Ireland, for the prizes for Ulrich Brunner roses, generously contributed by them, at the recent Rose Exhibition.

On motion of A. C. Bowditch, it was voted that the thanks of the Society be presented to the Gardeners and Florists' Club, of Boston, for the liberal prizes offered by them for mantel decorations at the Annual Exhibition of Plants and Flowers, and for chrysanthemums at the Annual Chrysanthemum Show.

It was voted that the Special Committee to award these prizes be appointed by the Committee of Arrangements.

Agreeably to the Constitution and By-Laws, the President appointed the following-named members a Committee to Nominate Candidates for Officers and Standing Committees for the next year:

William C. Strong, *Chairman*,

Francis H. Appleton,	Varnum Frost,
John G. Barker,	William H. Hunt,
Samuel Hartwell,	Frederick L. Harris.

The following-named persons, having been recommended by the Executive Committee, were, on ballot, duly elected members of the Society.

Miss MARY SOPHIA WALKER, of Waltham.
GEORGE H. LOMAX, of Somerville.
Dr. SARAH M. CRAWFORD, of Roxbury.

Adjourned to Saturday, September 5.

BUSINESS MEETING.

SATURDAY, September 5, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Seth Rich, of Reading, was proposed by J. W. Manning as a member of the Society.

David Monteith, of Dedham, was proposed by Michael H. Norton as a member of the Society.

William C. Strong, Chairman of the Committee to Nominate Candidates for Officers and Standing Committees for 1892, reported a printed list, which was accepted. It was voted that the committee be continued, and requested to nominate candidates to fill the places of any who might decline before the election.

Benjamin G. Smith moved that a Committee of two be appointed to nominate delegates to the Twenty-Third Biennial Session of the American Pomological Society, to be holden at Washington, D.C., September 22, 23, 24, and 25, to report at this meeting. The motion was carried, and the Chair appointed as that Committee Mr. Smith and William C. Strong, who reported the following list of delegates:

President William H. Spooner,

William C. Strong,	Benjamin P. Ware,
C. H. B. Breck,	Frank W. Andrews,
Benjamin G. Smith,	E. H. Luke,
E. W. Wood,	Edward Kendall,
O. B. Hadwen,	F. L. Temple,
Robert Manning,	J. W. Manning,
John G. Barker,	Chauncey Smith,

Rev. Calvin Terry.

The report was accepted, the persons named therein were appointed delegates, and it was voted that they be allowed to add to their number.

The Secretary announced the reception of a letter from Hon. Jeremiah Rusk, Secretary of Agriculture, Washington, D.C., accepting the Honorary Membership in the Society to which he

was elected. Also letters from William R. Smith, Washington, D.C., and Malcolm Dunn, Dalkeith, Scotland, accepting the Corresponding Memberships to which they were elected.

The following-named persons, having been recommended by the Executive Committee, were, on ballot, duly elected members of the Society:

NATHAN D. ROBINSON, of Roxbury.
PETER TANCRED, of Newtonville.
CHARLES B. TRAVIS, of Brighton.
HENRY B. HALL, of Roxbury.

The meeting was then dissolved.

BUSINESS MEETING.

SATURDAY, October 3, 1891.

A Stated Meeting of the Society, being the Annual Meeting for the choice of Officers and Standing Committees, which had been duly notified, agreeably to the Constitution and By-Laws, was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Agreeably to the Constitution and By-Laws, the President appointed John C. Hovey, John S. Martin, and Robert Manning a Committee to receive, assort, and count the votes given, and to report the number. The polls were opened at ten minutes past eleven o'clock.

The following-named persons, having been recommended by the Executive Committee, were, on ballot, duly elected members of the Society:

DAVID MONTEITH, of Dedham.
SETH RICH, of Reading.
CHARLES E. SWAIN, of Roxbury.
WALTER E. OVEREND, of Worcester.
W. G. KENDALL, D.D.S., Atlantic.
Rev. ALBERT E. WINSHIP, of Somerville.
Hon. JOHN CARR, of Roxbury.

The Executive Committee also recommended the election, as an Honorary Member, of Hon. JOSEPH S. FAY, of Wood's Holl. After remarks by Leverett M. Chase and the President, in praise of the good work done by Mr. Fay in clothing the barren hills of Cape Cod with wood, and of his services to Horticulture by his generous contributions to the exhibitions of this Society, he was unanimously elected an Honorary Member.

The polls were closed at ten minutes past one o'clock, and the Committee to receive, assort, and count the votes given reported the whole number of ballots to be ninety-eight, and that the persons named on the ticket reported by the Nominating Committee had a plurality and were elected.

The report of the Committee was accepted, and the persons reported as having the number of ballots necessary for a choice were, agreeably to the Constitution and By-Laws, declared by the President to have a majority of votes and to be elected Officers and Standing Committees of the Society for the year 1892.

Adjourned to Saturday, November 7.

BUSINESS MEETING.

SATURDAY, November 7, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Sumner Coolidge, of Mount Auburn, was proposed by A. C. Bowditch, and Harris E. Sawyer, of South Boston, by Col. Henry W. Wilson, both as Annual Members.

The President, as Chairman of the Executive Committee, reported a recommendation that the Society appropriate the following sums for prizes for the year 1892:

For Prizes for Flowers	$2,200
" " " Plants	2,050
" " " Fruits	1,800
" " " Vegetables	1,000
" " " Gardens	500
Total	$7,550,

being an increase of $750 over the appropriation for last year.

The report was accepted, and, agreeably to the Constitution and By-Laws, was laid over until the stated meeting on the first Saturday in January next for final action.

Leverett M. Chase moved, That Hon. Ephraim W. Bull, of Concord, Mass., be nominated an Honorary Member of the Massachusetts Horticultural Society, and that this nomination be referred to the Executive Committee of the Society for report at the next monthly meeting. This motion was unanimously carried.

On motion of Mr. Chase, it was also voted, That a committee of three be appointed to consider and report on the Disposition and Utilization of Sewage.

The President stated that he would announce this committee at the next meeting.

The President read a letter from Hon. Joseph S. Fay, of Wood's Holl, accepting the Honorary Membership in the Society to which he had been elected, and thanking the Society therefor. It was voted that the letter be placed on file.

The decease of P. M. Augur, of Middlefield, Conn., State Pomologist, was announced, and the Chair appointed O. B. Hadwen, Benjamin P. Ware, and Francis H. Appleton a Committee to prepare a memorial of Mr. Augur.

The following-named persons, having been recommended by the Executive Committee for membership in the Society, were, on ballot, duly elected:

Richard W. Lodge, of Swampscott.
E. B. Mallett, Jr., of Freeport, Maine.
Herman Strater, of Roxbury.
Miss Mary O. Stevens, of North Andover.
William W. Lee, of Northampton.

Adjourned to Saturday, December 5.

BUSINESS MEETING.

SATURDAY, December 5, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

John G. Barker, Chairman of the Committee on Gardens, read a partial report, being the awards agreed upon by the Committee. Mr. Barker stated that these awards exceeded the appropriation for the Committee by the sum of $25, and asked that this amount be transferred from the appropriation for the Committee on Fruits, which had a surplus. The report was accepted, and the transfer was voted. Mr. Barker asked further time to complete his report, which was granted.

E. W. Wood, Chairman of the Committee for Establishing Prizes, presented a list of prizes recommended by the Committee for the coming year. After some discussion and amendment, the list was accepted and adopted as the Schedule of Prizes for the year 1892.

Mr. Wood, also, as Chairman of the Committee on Fruits, read the Annual Report of that Committee, which was accepted and referred to the Committee on Publication.

Charles N. Brackett, Chairman of the Committee on Vegetables, read the Annual Report of that Committee, which was accepted and referred to the Committee on Publication.

The Chairmen of the Committee on Flowers and the Committee of Arrangements asked further time to prepare their reports, which was granted.

The President announced the Committee on the Disposition and Utilization of Sewage, provided for at the last meeting, as follows: Leverett M. Chase, Francis H. Appleton, and Col. Henry W. Wilson.

Hon. Thomas W. Bicknell, of Dorchester, was proposed by Leverett M. Chase as a member of the Society.

The following-named persons, having been recommended by the Executive Committee, were, on ballot, duly elected members of the Society:

HARRIS E. SAWYER, of South Boston.
SUMNER COOLIDGE, of Mount Auburn.
WILLIAM EDGAR, of Waverly.

Adjourned to Saturday, December 12.

BUSINESS MEETING.

SATURDAY, December 12, 1891.

An adjourned meeting of the Society was holden at eleven o'clock, the President, WILLIAM H. SPOONER, in the chair.

Hon. A. Shuman, of Roxbury, was proposed for membership by Leverett M. Chase.

William E. Endicott, Chairman of the Committee on the Library, read the Annual Report of that Committee.

Arthur H. Fewkes, Chairman of the Committee on Flowers, read the Annual Report of that Committee.

Patrick Norton, Chairman of the Committee of Arrangements, read the Annual Report of that Committee.

Robert Manning read his Annual Report as Secretary and Librarian.

These reports were severally accepted and referred to the Committee on Publication.

Frederick L. Harris, Chairman of the Committee on Plants, made a partial report, being a summary of the awards during the present year, and asked further time to prepare the full report, which was granted.

Patrick Norton, Chairman of the Committee of Arrangements, moved a vote of thanks to the Abram French Company for the free use of vases, generously afforded by them, at the Chrysanthemum Show, which was unanimously passed.

Mr. Norton then tendered his resignation of the Chairmanship of the Committee of Arrangements, which, after some discussion, was laid on the table.

The meeting was then dissolved.

REPORT

OF THE

COMMITTEE ON PLANTS,

FOR THE YEAR 1891.

By FREDERICK L. HARRIS, CHAIRMAN.

It is my intention to give you a very brief account of our doings the past year.

In the numerous exhibits of plants there were very many that require special mention, which I trust may prove instructive and of profit, not only to the many lovers of plants generally, but also to those engaged in commercial pursuits.

Before making such mention, however, I must go back some few years and ask the question, Are we making progress in the culture of specimen plants? Not much, I fear, for the reason that our exhibitors are quite limited in number, and the incentive is wanting for that high culture of which we once had evidence.

We miss at our spring shows Frederick L. Ames, David Allan, Hovey & Co., Marshall P. Wilder, and Samuel R. Payson, who so often favored us with Orchids, Azaleas, Bulbs, and Decorative Plants — a grand display — which, at this interesting season, was peculiarly attractive, but which we have not, to the same extent, enjoyed in late years. It is true we have had a few new competitors, — Dr. C. G. Weld, Joseph H. White, Aaron W. Spencer, and Hon. Joseph S. Fay. But we wish other gentlemen also to interest themselves in the good work, and add to these exhibits more extensively.

On the 14th of February, John L. Gardner exhibited a few Orchids, amongst them a grand plant of *Phaius grandifolius*.

March 7, Jackson Dawson brought a new hybrid rose, forced in a ten-inch pot, profusely covered with small semi-double flowers, color bright pink, of great beauty, and very fragrant, the result of a cross between the Japanese *multiflora* and the well-known General Jacqueminot, showing the distinct characteristics of each. It attracted special notice on account of its beauty, but also as giving promise of a new type of climbing, hardy roses. A First Class Certificate was awarded him. Pitcher & Manda exhibited double hardy Azaleas, for which a First Class Certificate was awarded.

SPRING EXHIBITION.

March 31 and April 1, 2, and 3.

On the whole, this show was a success. The Azaleas of Nathaniel T. Kidder, Edward Butler, and Dr. C. G. Weld were very fine. In Orchids, the only competitors were E. W. Gilmore, John L. Gardner, and Nathaniel T. Kidder, some of whose plants were rich and rare. The Cyclamens shown by Dr. C. G. Weld deserve high commendation.

Bulbs of all description were numerous, and many of them showed a high order of cultivation.

A pretty feature in connection with this show was the "rockery," arranged by Charles Jackson Dawson, of the Bussey Institution. If cork had been used instead of stones, it would have been equally effective, and very much easier to handle. I suppose that would be called a "corkery," but it would be well to try it.

The Cambridge Botanic Garden contributed a few spring-blooming plants, but quite unequal to former displays. A silver medal was awarded to H. H. Hunnewell for an *Amaryllis vittata* with fifty-three expanded blooms. A few Clivias came from the same source; the finest varieties of this plant would prove very useful for Easter decorations.

MAY EXHIBITION.

May 9.

Pelargoniums and Calceolarias are expected to lead in this display, but of the former none were exhibited. About twenty-five years ago, plants of these, four and five feet in diameter, were frequently shown, and we regret that so little interest is now taken

in this beautiful class of plants. Dr. C. G. Weld and Joseph H. White exhibited calceolarias, which were well done.

Rea Brothers received a Silver Medal for *Spiræa Japonica grandiflora* and *Spiræa astilboides.*

RHODODENDRON SHOW.

JUNE 6.

David Allan was awarded a Silver Medal for *Odontoglossum vexillarium Harrisianum*, and a Certificate of Merit for *O. vexillarium Allanianum.*

ROSE EXHIBITION.

JUNE 23 AND 24.

An interesting plant of *Ouvirandra fenestralis* (the Madagascar Lace plant) from C. Vanderbilt, Newport, R.I., was much admired.

Orchids from E. W. Gilmore, John L. Gardner, and A. W. Spencer came in for a fair share of admiration; but at this season it is very difficult to make a good display.

Robert C. Winthrop had Tuberous Begonias. We look for better results another year, not only in exhibition plants, but also in bedding plants for the garden.

ANNUAL EXHIBITION OF PLANTS AND FLOWERS.

SEPTEMBER 1, 2, 3, AND 4.

We always look forward to this exhibition with a great deal of pleasant anticipation, and seldom are we disappointed.

George A. Nickerson led off with first prize for six greenhouse and stove plants; second to Nathaniel T. Kidder; and third to Dr. C. G. Weld. The first prize for six Ornamental Leaved plants went to Nathaniel T. Kidder, for choice and admirably-grown specimens.

Specimen Palms came from Joseph H. White and Dr. C. G. Weld. They were quite large enough for the limited amount of room in the upper hall.

Perhaps few groups of plants ever attracted more admiration than the six grand Crotons shown by George A. Nickerson.

A plant of *Alocasia Sanderiana* from George McWilliam, gar-

dener to Mrs. J. A. Lasell, was certainly the finest ever seen on this continent. A Silver Medal was awarded therefor.

The *Pteris Victoria*, exhibited by Pitcher & Manda, will doubtless prove a valuable addition to our decorative plants, and of great usefulness to florists. A Silver Medal was awarded it. The same firm exhibited quite a collection of rare and useful ornamental plants, but not developed enough for the Committee to pass judgment on their merits.

A fine specimen of *Pandanus utilis* came from John L. Gardner; it was perfect in every respect. This is one of the most useful decorative plants we have.

We cannot pass without a word or two in praise of the collections of Coniferous trees, as shown by Temple & Beard and William C. Strong. Every kind adapted for the forest, landscape, and places limited to the extent of an acre or a quarter of an acre, was represented. A few in one of the collections were not hardy, and may prove misleading.

CHRYSANTHEMUM SHOW.

NOVEMBER 3, 4, 5, AND 6.

What shall we say of this great exhibition, when we realize the limited space we have at our disposal? If it had been possible to concentrate all the plants and cut flowers on that occasion, we flatter ourselves that even Music Hall would not have been any too large to show them to advantage. We think we can do even better if given the chance, and it is only through the aid of our Society we can expect to achieve such results. Our specimen plants and cut flowers, it is acknowledged, far surpassed anything at the New York show; and having held the supremacy in horticulture in all past time, we desire to maintain it. We can do so if due encouragement is extended, for we have among us enthusiastic amateurs who we doubt not will try to improve on specimen plants another year.

Walter Hunnewell and Arthur Hunnewell exhibited some grand plants. Nathaniel T. Kidder, Joseph H. White, Dr. C. G. Weld, John L. Gardner, Francis Brown Hayes, and others, were exhibitors in various classes. William H. Elliott's creditable display deserves commendation, adapted as the plants were for the market.

Dr. Henry P. Walcott wound up the show of chrysanthemums with a beautiful Yellow Pompon.

Norton Brothers' display of Orchids and Ferns — nicely arranged — was highly appreciated, and George McWilliam gained another Silver Medal for a wonderful plant of *Dendrobium formosum giganteum*.

The Committee are under obligations to Frank Becker for sending a fine collection of Palms and other ornamental plants for decorative purposes only; without them the Chrysanthemum Show would not have proved so effective. And here let us suggest that if the groups of Chrysanthemums were interspersed with a few decorative plants such as Palms, Dracænas, etc., they would add very much to the artistic beauty of the scene.

F. L. Harris,
David Allan,
William Robinson,
A. C. Bowditch,
James Comley.
} *Committee on Plants.*

PRIZES AND GRATUITIES AWARDED FOR PLANTS.

FEBRUARY 14.

Gratuity:

John L. Gardner, four Orchids in bloom $10 00

FEBRUARY 21.

Gratuity:

A. W. Spencer, Cinerarias and Azaleas 2 00

MARCH 7.

Gratuity:

Mrs. A. D. Wood, pan of twelve purple Hyacinths 1 00

SPRING EXHIBITION.

MARCH 31 AND APRIL 1, 2, AND 3.

Theodore Lyman Prizes.

INDIAN AZALEAS. — Six distinct named varieties, in pots, Nathaniel T. Kidder 20 00
Second, Dr. C. G. Weld 15 00
ORCHIDS. — Ten plants in bloom, E. W. Gilmore 30 00
Second, John L. Gardner 25 00

Society's Prizes.

INDIAN AZALEAS. — Four distinct named varieties, in not exceeding ten-inch pots, A. W. Spencer 12 00
Two distinct named varieties, Edward Butler 6 00
Specimen plant, named, Nathaniel T. Kidder 8 00
Second, Edward Butler 6 00
Single plant, of any named variety, in eight-inch pot, Dr. C. G. Weld 5 00
Second, James Comley, gardener to Francis Brown Hayes . 4 00
ORCHIDS. — Three plants in bloom, Nathaniel T. Kidder . . 12 00
Second, Nathaniel T. Kidder 8 00
Single plant in bloom, Edward Butler 6 00
Second, John L. Gardner 5 00
STOVE OR GREENHOUSE PLANT. — Specimen in bloom, other than Azalea or Orchid, named, Dr. C. G. Weld 8 00

Second, John L. Gardner	$6 00
HARDY FLOWERING SHRUBS, FORCED. — Four in pots, of four distinct named varieties, Jackson Dawson	6 00
Second, John L. Gardner	5 00
CYCLAMENS. — Ten plants in bloom, Dr. C. G. Weld	8 00
Three plants in bloom, Dr. C. G. Weld	4 00
Single specimen, Dr. C. G. Weld	3 00
Second, Nathaniel T. Kidder	2 00
HARD-WOODED GREENHOUSE PLANTS. — Four in bloom, John L. Gardner	8 00
Second, Dr. C. G. Weld	6 00
HARDY PRIMROSES AND POLYANTHUSES. — Ten plants, of distinct varieties, in bloom, Dr. C. G. Weld	6 00
Second, William Patterson	5 00
CINERARIAS. — Six varieties in bloom, in not over nine-inch pots, Dr. C. G. Weld	8 00
Second, Dr. C. G. Weld	6 00
Third, Nathaniel T. Kidder	5 00
Single plant in bloom, Dr. C. G. Weld	3 00
Second, Dr. C. G. Weld	2 00
HYACINTHS. — Twelve distinct named varieties, in pots, one in each pot, in bloom, John L. Gardner	10 00
Second, Dr. C. G. Weld	8 00
Third, Joseph S. Fay	6 00
Six distinct named varieties, in pots, one in each pot, in bloom, Dr. C. G. Weld	6 00
Second, John L. Gardner	5 00
Third, Joseph S. Fay	4 00
Three distinct named varieties in pots, one in each pot, in bloom, the third prize to Joseph S. Fay	2 00
Single named bulb, in pot, in bloom, John L. Gardner	2 00
Second, Dr. C. G. Weld	1 00
Three pans, ten bulbs of one variety in each pan, Dr. C. G. Weld,	10 00
Second, John L. Gardner	8 00
Third, Joseph S. Fay	6 00
Two pans, ten bulbs of one variety in each pan, Dr. C. G. Weld	8 00
Second, John L. Gardner	6 00
Third, Joseph S. Fay	5 00
Single pan, with ten bulbs of one variety, Dr. C. G. Weld	5 00
Second, John L. Gardner	4 00
Third, Joseph S. Fay	3 00
TULIPS. — Six six-inch pots, five bulbs in each, Dr. C. G. Weld	5 00
Second, John L. Gardner	4 00
Third, Joseph S. Fay	3 00
Three six-inch pots, five bulbs in each, in bloom, Dr. C. G. Weld,	4 00
Second, Bussey Institution	3 00
Third, Joseph S. Fay	2 00

Three pans, ten bulbs of one variety in each pan, Dr. C. G. Weld,	$6 00
Second, John L. Gardner	5 00
Third, Warren Ewell	4 00
Fourth, Joseph S. Fay	3 00
POLYANTHUS NARCISSUS. — Four seven-inch pots, three bulbs in each, in bloom, Dr. C. G. Weld	6 00
Second, Warren Ewell	4 00
JONQUILS. — Six six-inch pots, six bulbs in each, in bloom, Dr. C. G. Weld	3 00
Second, John L. Gardner	2 00
GENERAL DISPLAY OF SPRING BULBS. — All classes, Bussey Institution	12 00
Third, Warren Ewell	8 00
LILIUM HARRISII. — Three pots, not exceeding ten inches, the second prize to Mrs. Mary T. Goddard	6 00
LILY OF THE VALLEY. — Six six-inch pots, in bloom, the second prize to Warren Ewell	4 00
Third, Bussey Institution	3 00
ANEMONES. — Three pots or pans, Nathaniel T. Kidder	4 00
FREESIAS. — Six pots or pans, Mrs. Mary T. Goddard	5 00
Second, Bussey Institution	4 00
Third, Dr. C. G. Weld	3 00
ROMAN HYACINTHS. — Six pots or pans, Dr. C. G. Weld	5 00
Third, Bussey Institution	3 00

Gratuities:

Bussey Institution, for Rockery	30 00
William C. Strong, Collection of Evergreens	15 00
Temple & Beard, " " "	15 00
J. W. Manning, Evergreens	3 00
Edward Butler, fine plant of *Dendrobium nobile*	3 00
E. W. Gilmore, display of Orchids	10 00
Aaron W. Spencer, display	3 00
Jackson Dawson, Cypripedium	2 00
H. H. Hunnewell, Four Palms	10 00
Nathaniel T. Kidder, Orange Tree	2 00
Francis Brown Hayes, Collection of Plants	15 00
Norton Brothers, Display of Plants	5 00
Mrs. E. M. Gill, Bulbs	3 00
Norton Brothers, Display of Bulbs	2 00
C. E. Richards, Seedling Amaryllis	1 00
Botanic Garden, Display	15 00
Rea Brothers, *Primula Sieboldi*	2 00
William C. Winter, Auriculas	1 00
H. H. Hunnewell, Clivias, seven varieties	3 00

APRIL 25.

Gratuity:

Francis Brown Hayes, Azalea Marquis of Lorne	$2 00

MAY EXHIBITION.

MAY 9.

CALCEOLARIAS. — Six varieties, in pots, Dr. C. G. Weld	8 00
Second, Joseph H. White	6 00
Single plant, A. W. Spencer	3 00
Second, Dr. C. G. Weld	2 00
AURICULAS. — The second prize to Joseph H. Woodford	2 00

Gratuities:

A. W. Spencer, Two Orchids	2 00
" " Calceolarias	1 00

RHODODENDRON SHOW.

JUNE 6.

Gratuity:

Nathaniel T. Kidder, Six Calceolarias	4 00

ROSE EXHIBITION.

JUNE 23 AND 24.

SPECIMEN PLANT. — Named, other than Orchid, in bloom, John L. Gardner	7 00
SPECIMEN FOLIAGE PLANT. — New and rare, other than Orchid, C. Vanderbilt, Newport, R.I., *Ouvirandra fenestralis*	7 00
GLOXINIAS. — Six pots, not less than eight-inch, Robert C. Winthrop,	8 00
Second, John L. Gardner	6 00
ORCHIDS. — Six plants, of six named varieties, E. W. Gilmore	25 00
Second, John L. Gardner	15 00
Three plants, of three named varieties, E. W. Gilmore	15 00
Single specimen, named, E. W. Gilmore, *Phalænopsis grandiflora*,	8 00
Second, A. W. Spencer, *Dendrobium suavissimum*	6 00
TUBEROUS BEGONIAS. — Six pots of six varieties, Robert C. Winthrop	8 00
Second, John L. Gardner	6 00

Gratuities:

A. W. Spencer, two plants of *Ananassa sativa variegata*	2 00
Benjamin Grey, *Nelumbium speciosum*	5 00
Daniel Duffley, English Ivy	3 00

JULY 25.

HYDRANGEAS. — Pair, in tubs or pots, Nathaniel T. Kidder	8 00

Gratuity:

Nathaniel T. Kidder, *Veltheimia purpurea*	3 00

AUGUST 1.

Gratuity :

Nathaniel T. Kidder, fine display of Achimenes $5 00

ANNUAL EXHIBITION OF PLANTS AND FLOWERS.

SEPTEMBER 1, 2, 3, AND 4.

Special Prizes, H. H. Hunnewell Fund.

CONIFEROUS TREES NOT NATIVES OF NEW ENGLAND. — Display in pots or tubs, Temple & Beard 15 00
Second, William C. Strong 10 00

Special Prizes, offered by the Society.

PALMS. — Pair, in pots or tubs not more than twenty inches in diameter, Joseph H. White 12 00
Second, Dr. C. G. Weld 8 00
Pair, in pots not more than fourteen inches in diameter, Joseph H. White 8 00

Regular Prizes.

GREENHOUSE PLANTS. — Six Greenhouse and Stove Plants, of different named varieties, two Crotons admissible, George A. Nickerson 30 00
Second, Nathaniel T. Kidder 25 00
Third, Dr. C. G. Weld 20 00
Single plant for table decoration, dressed at the base, Nathaniel T. Kidder 10 00
Second, Joseph H. White 8 00
Third, George A. Nickerson 6 00
SPECIMEN FLOWERING PLANT. — Single named variety, Nathaniel T. Kidder 8 00
ORNAMENTAL LEAVED PLANTS. — Six named varieties not offered in the collection of greenhouse plants, Crotons and Dracænas not admissible, Nathaniel T. Kidder 20 00
Second, Joseph H. White 15 00
Single specimen, variegated, named, not offered in any collection, George A. Nickerson, *Croton variabilis* 6 00
Second, Nathaniel T. Kidder, *Croton Evansianus* . . . 5 00
Third, Joseph H. White, *Coprosma Baueriana variegata* . . 4 00
CALADIUMS. — Six named varieties, Nathaniel T. Kidder . . . 6 00
Second, Joseph H. White 4 00
FERNS. — Six named varieties, no Adiantums admissible, Nathaniel T. Kidder 10 00
Second, Dr. C. G. Weld 8 00
ADIANTUMS. — Five named varieties, Joseph H. White . . . 8 00

Second, Nathaniel T. Kidder	$5 00
Third, Dr. C. G. Weld	4 00
TREE FERN. — Single specimen, named, the third prize to Dr. C. G. Weld	6 00
LYCOPODS. — Four named varieties, Nathaniel T. Kidder	5 00
Second, Dr. C. G. Weld	4 00
DRACÆNAS. — Six named varieties, Nathaniel T. Kidder	8 00
Second, Dr. C. G. Weld	6 00
CROTONS. — Six named varieties, in not less than twelve-inch pots, George A. Nickerson	10 00
Six in six-inch pots, George A. Nickerson	6 00
Second, E. W. Gilmore	5 00
Third, Dr. C. G. Weld	4 00
CYCAD. — Single plant, named, Joseph H. White	10 00
Second, Joseph H. White, *Dion edule*	8 00
Third, Mrs. A. D. Wood	6 00
ORCHIDS. — Six plants, named varieties, in bloom, E. W. Gilmore	25 00
Three plants, named varieties, the second prize to Benjamin Grey,	10 00
TUBEROUS BEGONIAS. — Six pots of six varieties, Miss M. S. Walker	6 00
Second, Francis Brown Hayes	4 00

Gratuities:

Frank Becker, Collection of Palms	30 00
Pitcher & Manda, Collection of New and Rare Plants	25 00
John L. Gardner, *Pandanus utilis*	6 00
W. H. Lincoln, Collection of Plants	10 00
Fisher Brothers, " " "	6 00
Francis B. Hayes, " " "	3 00

CHRYSANTHEMUM SHOW.

NOVEMBER 3, 4, 5, AND 6.

CHRYSANTHEMUMS. — Display of twelve named plants, all classes, distinct varieties, Walter Hunnewell	50 00
Second, Arthur Hunnewell	40 00
Third, Nathaniel T. Kidder	30 00
Fourth, Joseph H. White	20 00
Six incurved or Chinese, distinct varieties, Francis B. Hayes	20 00
Six Japanese, distinct named varieties, Arthur Hunnewell	20 00
Second, Nathaniel T. Kidder	15 00
Third, Francis Brown Hayes	10 00
Forty plants in six-inch pots, each bearing one bloom, not less than twenty varieties, Dr. C. G. Weld	15 00
Second, John L. Gardner	12 00
Third, George B. Gill	10 00
Fourth, Bussey Institution	8 00

Specimen Incurved or Chinese named variety, Nathaniel T. Kidder,	$6 00
Specimen Japanese, named variety, Arthur Hunnewell . .	6 00
Specimen Pompon, named variety, Dr. Henry P. Walcott . .	5 00
Specimen Anemone, named variety, Joseph H. White . . .	6 00
Second, Dr. C. G. Weld	5 00
Specimen trained Standard, any class, named, Dr. C. G. Weld .	8 00
Second, Dr. C. G. Weld	6 00
Third, Dr. C. G. Weld	5 00

Gratuities:

Francis B. Hayes, Collection of Chrysanthemums	30 00
Dr. C. G. Weld, " " "	5 00
Dr. Henry P. Walcott, Collection of Plants	5 00
James Comley, Collection of Chrysanthemums	2 00
William H. Elliott, Collection of Orchids	25 00
Norton Brothers, " " "	10 00
Frank Becker, Collection of Plants	15 00
John L. Gardner, " " "	4 00

DECEMBER 12.

Gratuity:

Charles Storer, *Cattleya Leopoldii*, var. *guttata*	1 00

SOCIETY'S SILVER MEDALS.

Spring Exhibition, March 31 and April 1–3. H. H. Hunnewell, *Amaryllis vittata.*

May Exhibition, May 9. Rea Brothers, *Spiræa Japonica grandiflora* and *Spiræa astilboides.*

Rhododendron Show, June 6. David Allan, *Odontoglossum vexillarium Harrisianum.*

Annual Exhibition of Plants, September 1–4. George McWilliam, *Alocasia Sanderiana.*

" " " " " " Pitcher & Manda, Short Hills, N.J., *Pteris Victoria.*

Chrysanthemum Show, November 3–6. George McWilliam, *Dendrobium formosum giganteum.*

FIRST-CLASS CERTIFICATES OF MERIT.

March 7. Pitcher & Manda, Short Hills, N.J., Six New Hardy Azaleas.

" Jackson Dawson, Hybrid Seedling Rose; a cross between *multiflora* and General Jacqueminot. A rapid grower and hardy.

" Botanic Garden of Harvard University, *Astilbe Japonica grandiflora.*

Rhododendron Show, June 6. David Allan, *Odontoglossum vexillarium Allanianum.*

" " " Pitcher & Manda, Short Hills, N.J., Hybrid *Cypripedium Brownii.* Hybrid Anthurium No. 1.

" " " Robert C. Winthrop, *Nertera depressa.*

July 8. John L. Gardner, *Dendrochilum filiforme.*

Annual Exhibition of Plants, September 1–4. Pitcher & Manda, Short Hills, N.J., *Dracæna argentea striata.*

September 26. Charles Storer, *Aerides Sanderiana.*

HONORABLE MENTION.

Spring Exhibition, March 31 and April 1–3. Marshall B. Faxon, Pansies.

Exhibition of Autumn Fruits and Vegetables, October 3. Lewis H. Farlow, *Cattleya chrysotoxa.*

REPORT

OF THE

COMMITTEE ON FLOWERS,

FOR THE YEAR 1891.

By ARTHUR H. FEWKES, Chairman.

Previously to the present year the exhibits in the Plant and Flower department of this Society had increased to such an extent that it was found necessary to separate the Flowers from the Plants, and appoint a separate Committee to care for each. With the present month closes the term of service of the first Committee appointed, under the new arrangement, to take charge of the Flower department alone.

In common with all such radical changes the idea met with some opposition, but that the experiment has not only proved successful but has shown a necessity for the change must be apparent to all who have followed up our shows through the year. To be sure, there are some points where the separation has caused, and may hereafter cause, some confusion, but in time all these will be regulated.

Considering the fact that the present Committee were the first to take charge of this department, it may not be out of place to outline the principles upon which we have worked, and to make some suggestions which we think will be of value in the future.

Assuming this Society to be an educational institution, we believe that all exhibits should be placed in our halls with this fact in view; that is, whatever may be brought here should be exhibited with the idea of instructing the public, and displays should

be so arranged that the most benefit will be derived from them. Simple decoration of the tables and halls is not all for which the exhibitor should strive, although this is a very necessary consideration at our large shows. Miscellaneous collections of flowers without names, while they may be very pretty and interesting, fail to fulfil the objects of the Society, being only of passing interest to the casual observer.

All collections, to be of real value, unless used for decoration alone, should be thoroughly and distinctly labelled with the names of the species and varieties composing the exhibit. It is not enough simply to place the flowers on the table at hap-hazard, but great care should be taken in the arrangement as to color, uniformity, and neatness. How often we see some really meritorious exhibits nearly ruined by an injudicious mingling of conflicting colors, or an irregular, thrown together appearance of the specimens. Each specimen should appear by itself with its appropriate label.

The importance of good labelling cannot be too strongly emphasized, for upon this depends, in a great measure, the amount of good to be derived from an examination of an exhibit; and it seems to us that this matter should not be left entirely with the exhibitor, but cards of uniform size and style should be at hand and other means should be provided by which intelligible inscriptions can be placed upon them.

Another matter of importance in this connection is the question of how these labels can be so attached to the specimens themselves, or to the vases holding them, that they cannot be lost, and in such a manner that the name can be read without reaching in among the vases, which often results in great injury to the exhibit.

At our last Chrysanthemum Show a method was introduced intended to obviate any chance for favoritism in judging the competing exhibits. The card, bearing the name of the exhibitor and number of the class in which he was competing, was placed in an envelope, which was then sealed and marked with the class number on the outside. The cards remained in the sealed envelopes until after the awards were made, when they were opened by the Committee. This plan received the commendation of many exhibitors, and seemed to be worthy of general adoption as a measure commendable for its simplicity and effectiveness.

Turning now to the year's exhibitions, we will not attempt a detailed account of everything that has been brought in, but will notice the most prominent features of each.

The year has been an unusual one in many respects, our displays of cut-flowers never having been equalled either in quantity or quality, although the peculiarities of the season have to a considerable extent frustrated the plans and disappointed the hopes of many growers.

The spring opened extremely early, with midsummer heat in the early part, followed by a much cooler season, forcing some flowers into bloom sooner than their wonted time, while others were retarded in their blossoming.

The fall months were remarkably warm, the frosts holding off fully four weeks longer than usual, causing many plants to behave in an unusual manner, notably the Chrysanthemum, the flowering of which was much retarded by the continued warm weather in October. This kept the plants longer in a growing condition, thereby causing them to set their buds from one to two weeks later than usual.

There are two classes of displays which have become a prominent feature of our summer shows, and which cannot be too highly commended for their educational merits. We refer to the displays of herbaceous and native plants. The monthly exhibits in the former class, by J. W. Manning, Nathaniel T. Kidder, and Temple & Beard, have been exceedingly interesting and valuable, marking the change of taste in gardening which has welcomed back the grand flowers of the old-fashioned garden to take a place with the many new-comers which persevering collectors are annually sending from all parts of the globe. The large number of intensely interested people who press around the collections of wild flowers from Mrs. P. D. Richards, E. H. Hitchings, Walter E. Coburn, and others, speak for the popularity of this class, many of which are almost weekly brought together by these botanists.

In speaking of wild flowers, while we would not discourage in the least these valuable displays, it seems as though the cause of horticulture would be advanced if more attention were given to the introduction into gardens and the cultivation of our most beautiful native plants. Displays of garden-grown specimens of these

flowers would give many a valuable hint to lovers of a good garden.

In the matter of designs we can report but little interest manifested, although there has been some improvement in originality and style, while the execution has been good.

On the 31st of January the first exhibit of merit was made by Francis Brown Hayes, who brought in a fine collection of camellias, including the rare and superb variety raised by the late Hon. Marshall P. Wilder, and named A. J. Downing. The collection being shown with leaves, the beauty of the flowers was much enhanced. It is to be regretted that but few of the varieties were labelled.

A First Class Certificate of Merit was awarded to Arthur H. Fewkes, for a fine variety of *Clivia miniata*, the original of which was collected at the Cape of Good Hope by John L. Flanders, by whom it was sent to Joseph H. Woodford. The variety has been named John L. Flanders.

On February 7, Richard T. Lombard exhibited some very fine Carnations, among which was a vase of a very large-flowered, yellow variety of great promise. It was raised by John H. Pond. The exhibitor was awarded Honorable Mention for this variety.

The same award was also made to Jackson Dawson for a new Lily from Formosa, evidently belonging to the *Japonicum* section of the Genus *Lilium*. The flowers are in the way of *L. longiflorum* and *L. Harrisii*, but apparently much earlier than either of them. If this should prove to be a characteristic of this new species, it will be a very valuable addition to the list of lilies available for winter flowering.

Exhibits of merit were made on February 21 by Charles Jackson Dawson, who brought from the Bussey Institution an interesting display of forced hardy flowers, and by Francis Brown Hayes, who sent a fine collection of Camellias. Richard T. Lombard again showed his new Carnation, Golden Triumph, in fine condition.

On February 28, the cut Orchids and Acacias from H. H. Hunnewell were of great excellence. The latter were represented by charming sprays of *Acacia pubescens*, *A. longifolia*, and the exceedingly graceful *A. Riceana*. It is much to be regretted that these beautiful flowers are so seldom exhibited, there being many available species whose time of flowering extends over a considerable period. The Orchids shown were *Phalænopsis Stuartiana*,

P. grandiflora, *P. Schilleriana*, *Ansellia Africana*, and *Dendrobium Sanderiana*. Honorable Mention was awarded to Mr. Hunnewell for *Phalænopsis Stuartiana*, which was represented by a superb spike bearing some fifty-two flowers. The Bussey Institution contributed flowers from forced plants, making an interesting display.

On March 7, Jackson Dawson's forced specimens of *Viburnum plicatum*, and *Andromeda speciosa* were noticeable. The latter is worthy of extended cultivation for forcing purposes, its numerous bell-like, white flowers are most fascinating, and are sure to be greatly sought after when better known.

Passing over the displays of March 14 and 21, which were excellent in their way, we come to the

SPRING EXHIBITION.

March 31 and April 1, 2, and 3.

This, although nominally a Bulb show, will be remembered for its beautiful displays of Roses in vases, which made a leading feature of this very successful exhibition. We were pleased to see the increasing interest manifested in the Tea and other forced roses. The display of these in our halls has never been equalled, although the number of exhibitors was small. The more prominent among them were Thomas H. Meade, Charles V. Whitten, William H. Elliott, and Francis Brown Hayes. Lawrence Cotter, gardener for Mr. Whitten, received a First Class Certificate of Merit for superior cultivation of the Hybrid Rose Ulrich Brunner, a beautiful vase of which was a prominent object in Mr. Whitten's display.

The principal roses shown were Catherine Mermet, The Bride, Cornelia Cook, Duchess of Albany, Mme. Hoste, Papa Gontier, Baroness Rothschild, Captain Christy, and Ulrich Brunner.

James Comley made a fine showing of his new rose, Oakmont. He claims this to be a seedling Hybrid Tea, raised by himself in the year 1880, it being a cross between President and Prince Camille de Rohan, and that its points of superiority are freeness, hardiness, and fine color. It somewhat resembles the old variety, Victor Verdier, in form and color, but with different habit. A First Class Certificate of Merit was awarded to him for it.

That the Carnation is destined to occupy a prominent place at

our Spring Show in the future is quite evident from the creditable displays made at the present one, and with the increased appropriation for these flowers we may look for interesting displays at the next one. Richard Lombard again showed his new Yellow Carnation, Golden Triumph, grown by John H. Pond, to whom a First Class Certificate of Merit was given. It is a very full flower, of a light clear yellow color, slightly streaked with red, and touched with white on the edges of the petals. Its habit is strong, with deep green foliage. J. C. Chambers, of Toughkenamon, Pa., was awarded Honorable Mention for his Carnation, Grace Darling, a rival of the well-known Grace Wilder, it being a few shades darker than that variety as shown.

A quite interesting display was made by Benjamin Grey, with some fifty cut blooms of as many varieties of *Dendrobium nobile*, including all shades from nearly pure white to deep rosy purple.

The prizes for Violets brought out some good flowers of the common varieties, but in a measure they failed to fulfil the purpose for which they were offered. It may not be generally known that there are a large number of varieties of the English Violet which are seldom seen outside of amateur gardens; and it was the wish that some of these should be shown that suggested the offering of these prizes.

A plant seldom seen at our shows is the *Primula Sieboldi*, which was well shown by Rea Brothers. In connection with six plants in pots they exhibited cut flowers of eleven different forms of this species, from pure white to deep rose and lilac in color, and with both smooth and fringed flowers. These are a very charming class of plants, and are worthy of more extended cultivation.

The remaining exhibits, which may be found in the general list of awards, do not seem to need special mention, except the display of *Asparagus plumosus* made by William H. Elliott, who festooned a large chandelier with this delicately beautiful vine, well illustrating its usefulness for decorative purposes.

The Saturday shows, from week to week, have been very interesting, but so full that it would not be practicable to specially mention all that has been shown, although there has been comparatively little that would seem not to deserve a word of praise.

MAY EXHIBITION.

May 3.

At this show we had many fine exhibits placed on the tables in the various classes and otherwise; but one would expect to see more competition in the way of Tulips and hardy Narcissuses, especially in the latter class, when there are so many beautiful varieties to be had now in commerce.

We cannot pass on without mentioning the exceedingly interesting displays — the first of which was made at this exhibition — by Jackson Dawson, from the Arnold Arboretum, which are as beautiful as they are instructive, placing before us the flowers and fruits of the shrubs and trees from all parts of the world that are hardy enough to withstand our winters.

Rea Brothers exhibited the new *Astilbe Japonica grandiflora*, which was shown for the first time in pots, on April 25, by Mr. Cameron, of the Botanic Garden. This is a very valuable addition to our hardy plants, it being very distinct from the type, and equally available for forcing purposes.

The displays of Pansies in the same exhibition, especially the fifty blooms shown by Hon. Joseph S. Fay, have never been excelled in quality.

A very notable display was made on May 23, by Jackson Dawson, of some thirty-four species and varieties of Lilacs, showing in a very marked manner the improvements which have been made over the old well-known *Syringa vulgaris*.

On May 30 a First Class Certificate of Merit was awarded to M. H. Walsh, gardener to Hon. Joseph S. Fay, for superior cultivation of Pansies, he having shown seven plates of flowers which excelled all previous efforts in this line.

RHODODENDRON SHOW.

June 6.

In many respects this was one of the most successful exhibitions of the year. The hall was well filled with fine displays, and the attendance was unprecedentedly large.

The principal exhibitors of Rhododendrons were H. H. Hunnewell, John L. Gardner, and Francis Brown Hayes. Hardy Azaleas

were not as numerous as could be wished, while Tree Pæonies were entirely absent, and German Irises were not up to the standard. Clematises were well shown by Joseph H. Woodford, and Hardy Pyrethrums were numerous. Magnificent displays of Hardy Flowering Trees and Shrubs were made by Jackson Dawson and Nathaniel T. Kidder. Herbaceous plants were shown by Nathaniel T. Kidder, J. W. Manning, and Temple & Beard. Native plants were well represented by the collections of E. H. Hitchings, Mrs. P. D. Richards, and Walter E. Coburn.

As one looked at this splendid exhibition of early summer flowers, it seemed a great pity that it should be so soon brought to a close. It appears quite evident that this exhibition has outgrown its original limitations, and has become worthy to be placed in the list with the Spring, Rose, Annual, and Chrysanthemum Shows.

ROSE EXHIBITION.

June 24 and 25.

As an exhibition this was not as good as we have had in previous years. But it was a creditable one, considering the heavy rains for several days previous to the opening day, which greatly injured all kinds of out-door flowers. Owing to the advanced season many growers found their best flowers gone nearly a week before the exhibition, but Hon. Joseph S. Fay, of Wood's Holl, was fortunate in being just in season with grand displays in no less than seven classes. Other exhibitors of roses were John L. Gardner, William H. Spooner, William Patterson, Francis Brown Hayes, Dr. C. G. Weld, George P. Hayward, Joseph S. Chase, Joseph H. White, John H. Moore, Nathaniel T. Kidder, Joseph Brierly, Mrs. E. M. Gill, Norton Brothers, Edwin Sheppard & Son, and Warren Heustis & Son.

One of the most noticeable varieties among the many old favorites shown was the comparatively new Gloire Lyonnaise, whose pale yellow color makes a pleasing variety among the well-known shades of pink and crimson.

The special prizes in plate offered by Alexander Dickson & Son, of Belfast, Ireland, for the variety Ulrich Brunner, brought out quite a lively competition. Mr. Fay took the first honors with a stand of finely-colored blooms, and John L. Gardner the second with an exhibit scarcely inferior.

Other exhibits than Roses were numerous, and many of them of great excellence. Honorable Mention was awarded to Benjamin Grey for new Nymphæas, and to the Bussey Institution for a variety of *Rhododendron maximum*.

In the class of Herbaceous Pæonies there was but one entry, and that was by Thomas C. Thurlow. The date of this exhibition proved much too late for this flower; but we predict for next season fine displays of this grand old plant, as provision has been made for earlier exhibits. This is one of the splendid old garden plants which upon the advent of the bedding-out system were relegated to the dump-heap, but are now coming back in all the old-time beauty and usefulness.

WEEKLY EXHIBITIONS.

The Saturday shows during the summer, from the Rose Show to the Annual, were fully up to the average, and the attendance at some of them was unparalleled.

On June 27 John C. Hovey exhibited one of the late John Richardson's seedling Pæonies, No. 9, named Milton Hill. This is a very beautiful variety, in form similar to Festiva, but of a clear, soft, flesh color throughout, with a few dark crimson markings in the centre. This was awarded a First Class Certificate of Merit.

July 18 was Hollyhock day. Hon. Joseph S. Fay was the principal exhibitor, his display filling nearly the entire length of the centre table with spikes averaging six feet in height. With the exception of Mr. Fay's exhibit, the ravages of the Hollyhock fungus were everywhere apparent. On the Saturday following — July 25 — he made a still finer showing of these flowers, it being the finest display of the kind ever seen in these halls. They were principally in cut-spikes, many of which were eight feet in height, and comprised a great variety of colors.

Sweet Peas have been well shown, the interest in them seeming to be on the increase. Fine displays were made on July 18 and August 1.

On the latter date H. H. Hunnewell sent a specimen of the new *Lilium Wallichianum superbum*, for which a First Class Certificate of Merit was awarded. It is a magnificent Lily, with an immense funnel-shaped flower, solid in texture, and beautiful in color,

which is white, shaded with chocolate on the outside, and delicately tinged with yellow on the inside.

August 15 Honorable Mention was awarded to Dr. C. G. Weld for a seedling variegated Gladiolus named for him. Its color is a very rich crimson with dark streaks, the flowers being well formed and the spike good.

August 22, although not a regular prize day, there was one of the finest Saturday shows of the season, Asters predominating. R. & J. Farquhar & Co. filled the entire length of the centre table with a representative display of the many varieties of this popular flower, including some twenty-two classes; a First Class Certificate of Merit was awarded to them. Honorable Mention was made of the collections of J. Warren Clark, William C. Strong, George A. Nickerson, and Frederick W. Vanderbilt, of Newport, R.I.

ANNUAL EXHIBITION OF PLANTS AND FLOWERS.

September 1, 2, 3, and 4.

Never have we had such displays of Asters and other Annuals, Herbaceous plants and Shrubbery, as at this show, although it was preceded by nearly a week of bad weather. The demand for space was unprecedented, and many late comers were turned away, not being able to secure either room or vases in which to display their flowers.

Dahlias were shown in great perfection by William C. Winter, E. Sheppard & Son, John Parker, and J. F. Marble.

The new prizes offered for Flowering Cannas brought out some fine displays of these gorgeous flowers by R. & J. Farquhar & Co., William Patterson, James S. Cowles, of Newport, R.I., and Temple & Beard. The Canna Mme. Crozy stands preëminent, and cannot be approached by any other existing variety.

The displays of Aquatic Plants were, as usual, very attractive to the public. The Nymphæas from John Simpkins were particularly well grown, while the immense leaf and flower of the *Victoria regia* shown by him were, as always, the wonder of all who saw them.

Tuberous Begonias were not as plentiful as was expected, although some good flowers were shown.

Some very fine flowers were staged in the classes for *Lilium*

lancifolium, the vase of the variety Melpomene, shown by Frederick W. Vanderbilt, of Newport, R.I., being particularly well grown.

Lilium Wallichianum superbum was again shown by William C. Strong, making a prominent object in his display.

An extensive display was made from the Botanic Garden of Harvard University, filling about one hundred and seventy bottles, including many choice and rare Herbaceous Plants and Shrubs.

Jackson Dawson also brought an interesting collection of berry-bearing shrubs from the Arnold Arboretum.

The prizes offered by the Boston Gardeners and Florists' Club, for decorated mantels, brought out four competitors, and added largely to the attractiveness of the exhibition.

The displays of Perennial Asters on the 3d of October were of great merit, well illustrating the possibilities of these plants for decorative purposes. George Hollis and Mrs. P. D. Richards were the only exhibitors in this class.

CHRYSANTHEMUM SHOW.

November 10, 11, 12, and 13.

This was set for the first week in November, beginning with the 3d; but, owing to the general lateness of the plants with the prominent growers, it was postponed for a week.

This was the grand show of the year, and an appropriate closing scene for our annual floral pageant. We can but marvel at the wonderful strides made in the cultivation of this plant for flowers. In looking back over the reports of the Society, we find it is only a few years since the flowers began to take a prominent place at our shows, and when the Chinese and Pompon varieties held full sway. Now the Japanese are fast driving them to the wall, and a good incurved flower or a Pompon is indeed a rarity. There seems to be a fascination about the immense Japanese forms which is irresistible, but we regret to see the diminishing interest in the many smaller, but more graceful varieties.

The prizes offered by the Society, and by the Boston Gardeners and Florists' Club, for vases of long-stemmed blooms — although there was but little competition in these classes — brought out

some magnificent flowers. The most lively competition appeared in the classes for six and twelve Japanese, and many splendid blooms were staged. The Incurved and Anemone flowers were much neglected, leaving not a little to be desired in these classes.

Much interest centred about the table for Seedling varieties, where many new-comers were waiting for recognition. The first prize in this class went to Pitcher & Manda, of Short Hills, N.J., for their Harry May, a superb bronzy-yellow flower with broad incurved petals and fine form. The second prize was awarded to Henry A. Gane for his Mrs. Jerome Jones, an equally valuable variety, but a little less distinct in color, it being a beautiful pearly white, of incurved Japanese form and unrivalled dark-green foliage. The third prize was given to George B. Gill, for Adeline Bradbury, a fine deep bronze with yellow shadings, of the incurved Japanese type. Honorable mention was awarded to C. D. Kingman for his red seedling, Kildare, and one of a fine shade of pink, named Eglantine; to Pitcher & Manda, for Annie Manda, a white form after the type of Mrs. Alpheus Hardy; to Norris F. Comley, for a very promising red seedling numbered 21; to George B. Gill, for his Adeline Bradbury; to J. Eaton, Jr., for two very promising pink, incurved seedlings, numbered 1–'91 and 2–'91, and to T. D. Hatfield, for a collection of seedlings of 1891.

First Class Certificates of Merit were given to T. D. Hatfield, for his beautiful amber-colored seedling of 1890, named Walter Hunnewell, and to James Wheeler, for a pure white reflexed seedling of 1890, named Joseph H. White.

Silver Medals were awarded to Pitcher & Manda, for Harry May, and to Henry A. Gane, for Mrs. Jerome Jones.

Honorable Mention was also awarded to John H. Dunlop, for his new Rose, Toronto, a sport from Perle des Jardins; to Sewell Fisher, for seedling Carnation, No. 113, a promising white, and to R. & J. Farquhar & Co., for twenty-five seedling Cannas.

The displays of Tea Roses from F. R. Pierson, Tarrytown, N.Y., J. Frank Curtis, and E. M. Wood, formed an attractive addition to the exhibition.

Carnations were shown in good numbers by H. E. Chitty, Paterson, N.J.; Richard T. Lombard, Edward Swayne, Kennett Square, Pa.; Sewell Fisher, L. S. Fife, and James Tulis. Mr. Lombard's display of thirty named varieties of carnations was both beautiful and instructive. New varieties shown were Thomas

Cartledge, by Edward Swayne; Sewell Fisher's No. 113, and L. S. Fife's Evangeline.

J. W. Manning having obtained the greatest number of first prizes throughout the season, for Herbaceous Plants, became entitled to the Appleton Silver Medal, and N. T. Kidder to the Appleton Bronze Medal for the next greatest.

The Committee have awarded during the year one Appleton Silver Medal, one Appleton Bronze Medal, two Society's Silver Medals, ten First Class Certificates of Merit, and twenty-eight Honorable Mentions.

The amount appropriated for flowers for 1891 was	$1,750 00
The amount awarded in prizes and gratuities . .	1,745 00
Unexpended balance	$5 00
We have also awarded in special prizes . . .	$313 00

All of which is respectfully submitted.

A. H. Fewkes,
E. H. Hitchings,
M. H. Norton,
Wm. J. Stewart,
J. H. Moore.
} *Committee on Flowers.*

PRIZES AND GRATUITIES AWARDED FOR FLOWERS.

JANUARY 31.

Gratuity:

Francis Brown Hayes, Collection of Camellias	$2 00

FEBRUARY 7.

Gratuity:

Francis Brown Hayes, Collection of Camellias	2 00

FEBRUARY 21.

Gratuities:

Francis Brown Hayes, Display of Camellias	4 00
Bussey Institution, Display of Forced Plants	2 00

FEBRUARY 28.

Gratuities:

H. H. Hunnewell, Orchids and Acacias	3 00
Bussey Institution, Forced Plants	2 00

MARCH 14.

Gratuities:

E. Sheppard & Son, Two dishes of Pansies	2 00
Francis Brown Hayes, Camellias and Rhododendrons	2 00
Jackson Dawson, *Andromeda speciosa*	1 00

MARCH 21.

Gratuity:

Charles V. Whitten, Ulrich Brunner Roses	2 00

SPRING EXHIBITION.

MARCH 31 AND APRIL 1, 2, AND 3.

TENDER ROSES IN VASES. — Twelve blooms of Catherine Mermet, Thomas H. Meade	5 00
Second, Charles V. Whitten	4 00
Twelve blooms of Cornelia Cook, Charles V. Whitten	5 00
Twelve blooms of Duchess of Albany, Thomas H. Meade	5 00
Twelve blooms of Mme. Hoste, Charles V. Whitten	5 00
Twelve blooms of Papa Gontier, Thomas H. Meade	5 00

Twelve blooms of The Bride, Thomas H. Meade	$5 00
Second, Charles V. Whitten	4 00
PANSIES. — Fifty cut blooms in the Society's flat fruit dishes, George Seaverns	4 00
Second, E. Sheppard & Son	3 00
VIOLETS. — Best collection of blooms, fifty in a bunch, Nathaniel T. Kidder	4 00
Second, A. Galbraith	3 00
CARNATIONS. — Display of cut blooms, with foliage, not less than six varieties, in vases, Consider Southworth	5 00
Second, Richard T. Lombard	4 00
CENTRE PIECE OR ARTISTIC DESIGN. — The last day of the exhibition, Mrs. A. D. Wood	8 00
Second, Mrs. E. M. Gill	6 00

Gratuities:

William H. Elliott, Hybrid Roses	5 00
Thomas H. Meade, Collection of Roses	3 00
D. H. Hayes, Collection of Hybrid Roses	2 00
Charles W. Galloupe, Collection of Tea Roses	2 00
Francis Brown Hayes, La France Roses	1 00
" " " Camellias, Roses, etc.	3 00
James Tulis, Collection of Carnations	3 00
Botanic Garden of Harvard University, Collection of Curious Plants,	5 00
Charles W. Galloupe, Lilies, etc.	2 00
C. W. Knight, *Bougainvillea glabra*	3 00
William H. Elliott, *Asparagus plumosus*	2 00
Stephen H. Baker, Callas	1 00
E. Sheppard & Son, Cut Flowers	1 00
Mrs. E. M. Gill, " "	1 00

APRIL 11.

Gratuity:

Francis Brown Hayes, Collection of Hybrid Roses	6 00

APRIL 18.

Gratuity:

Francis Brown Hayes, Collection of Hybrid Roses and Rhododendrons	3 00

MAY 2.

Gratuities:

John C. Hovey, Narcissuses	1 00
Botanic Garden of Harvard University, Display of Spring Flowers,	2 00

MAY EXHIBITION.

May 9.

Tulips. — Twenty-four blooms, distinct named varieties, Dr. C. G. Weld	$6 00
Second, Bussey Institution	4 00
Hardy Bulbs. — Collection of blooms, Bussey Institution	5 00
Pansies. — Fifty cut blooms, in the Society's flat fruit-dishes, Joseph S. Fay	5 00
Second, Denys Zirngiebel	4 00
Third, Isaac E. Coburn	3 00
Basket of Flowers. — The second prize to Mrs. E. M. Gill	5 00
Third, Mrs. A. D. Wood	4 00
Native Plants. — Fifty bottles, E. H. Hitchings	5 00
Second, Mrs. P. D. Richards	4 00
Gratuities:	
Francis Brown Hayes, Collection of Cut Flowers and Shrubs	3 00
Botanic Garden of Harvard University, Collection of Spring Flowers	3 00
Jackson Dawson, Collection of Cut Flowering Shrubs	2 00
Rea Brothers, Display of *Astilbe Japonica grandiflora* and *Spiræa astilboides*	1 00
Everett W. Raddin, Collection of Tulips	1 00

May 23.

Gratuities:	
Jackson Dawson, Thirty-four species and varieties of Lilacs	5 00
Francis Brown Hayes, Collection of Flowering Trees and Shrubs	3 00
J. Warren Clark, Collection of late Tulips	1 00

May 30.

Gratuity:	
Francis Brown Hayes, Display of Cut Flowering Trees and Shrubs,	3 00

RHODODENDRON SHOW.

June 6.

H. H. Hunnewell Premiums.

Rhododendrons. — Twelve distinct Hardy varieties, named, John L. Gardner, plate valued at	20 00
Second, Francis Brown Hayes, plate valued at	15 00
Single truss of any Tender variety, named, Joseph Clark	2 00
Hardy Azaleas. — From any or all classes, fifteen named varieties, one truss of each, the second prize to John L. Gardner	5 00

Society's Prizes.

GERMAN IRIS. — Six distinct varieties, one spike of each, the second prize to John L. Gardner	$2 00
CLEMATIS. — Named varieties, display of cut blooms, with foliage, Joseph H. Woodford	4 00
HARDY PYRETHRUMS. — Display, Temple & Beard	3 00
Second, Dr. C. G. Weld	2 00
Third, John L. Gardner	1 00
HARDY FLOWERING TREES AND SHRUBS. — Collection of thirty species and varieties, named, cut blooms, Jackson Dawson	8 00
Second, Nathaniel T. Kidder	6 00
HERBACEOUS PLANTS. — Collection, filling fifty bottles, Nathaniel T. Kidder	5 00
Second, J. W. Manning	4 00
Third, Temple & Beard	3 00
BASKET OF FLOWERS. — Mrs. A. D. Wood	5 00
Second, Mrs. E. M. Gill	4 00
NATIVE PLANTS. — Display of fifty bottles of named species and varieties, one bottle of each, E. H. Hitchings	5 00
Second, Mrs. P. D. Richards	4 00
Third, Walter E. Coburn	3 00

Gratuities:

Francis Brown Hayes, Display of Rhododendrons, etc.	20 00
H. H. Hunnewell, One hundred varieties of Rhododendrons	15 00
John L. Gardner, Rhododendrons	5 00
William C. Strong, "	2 00
Thomas C. Thurlow, Azaleas and Rhododendrons	3 00
Joseph S. Fay, Flowering Trees and Shrubs	4 00
Joseph Clark, " Shrubs, etc.	1 00
Joseph S. Fay, Pansies	3 00
Marshall B. Faxon, Pansies	1 00
Isaac E. Coburn, Pansies, Pelargoniums, etc.	1 00
Joseph Comley, Hybrid Roses	2 00
Joseph H. White, Gloxinias	2 00
Consider Southworth, Collection of Carnations	3 00
Bussey Institution, Lilies, Tulips, etc.	2 00
Mrs. E. M. Gill, Pyrethrums	1 00
John L. Gardner, Aquilegias	1 00
Leverett M. Chase, Garden Flowers	1 00

JUNE 13.

Gratuities:

Francis B. Hayes, Rhododendrons, Pæonies, and Shrubs	5 00
Jackson Dawson, Hybrid Perpetual Roses and Shrubs	2 00
William H. Spooner, " " "	3 00

John L. Gardner, Pyrethrums, Pæonies, and Poppies	$4 00
William C. Strong, Fourteen varieties of Pæonies	2 00
Ellen M. Harris, Pæonies	2 00
George Hollis, "	1 00
Benjamin D. Hill, Clematis	2 00
Mrs. A. D. Wood, Four vases of Flowers	1 00
L. E. Chase, Cut flowers	1 00
Mrs. E. M. Gill, Cut flowers	1 00

JUNE 20.

Gratuity:

Francis Brown Hayes, Hybrid Roses, etc.	2 00

ROSE SHOW.

JUNE 23 AND 24.

Special Prizes from the Theodore Lyman Fund.

HARDY PERPETUAL ROSES. — Twenty-four distinct named varieties, three of each variety, Joseph S. Fay, in money, or plate of equal value	35 00
Second, John L. Gardner, in money, or plate of equal value	30 00
Third, William H. Spooner, in money, or plate of equal value	25 00

Special Prizes offered by Alexander Dickson & Sons, Belfast, Ireland.

HYBRID PERPETUAL ROSES. — Ulrich Brunner, twelve blooms, Joseph S. Fay, a piece of plate valued at	25 00
Second, John L. Gardner, a piece of plate valued at	15 00

Special Prizes offered by the Society.

HYBRID PERPETUAL ROSES. — Six blooms of Baroness Rothschild, William Patterson	5 00
Second, Francis Brown Hayes	4 00
Six blooms of Mme. Gabriel Luizet, Francis Brown Hayes	5 00
Second, Dr. C. G. Weld	4 00
Twelve blooms of any other variety, George P. Hayward, Gen. Jacqueminot	7 00
Second, Joseph S. Chase, Ulrich Brunner	5 00

Regular Prizes.

Sixteen distinct named varieties, three of each variety, Joseph S. Fay	20 00
Twelve distinct named varieties, three of each variety, Joseph S. Fay	15 00
Six distinct named varieties, three of each variety, Joseph S. Fay	15 00

Second, Joseph H. White	$10 00
Three distinct named varieties, three of each variety, Joseph S. Fay	10 00
Second, Dr. C. G. Weld	8 00
Third, John L. Gardner	5 00
Twenty-four distinct named varieties, one of each, John B. Moore & Son	15 00
Second, John L. Gardner	10 00
Third, William H. Spooner	8 00
Eighteen distinct named varieties, one of each, the second prize to William H. Spooner	8 00
Twelve distinct named varieties, one of each, Dr. C. G. Weld	10 00
Second, William Patterson	6 00
Third, John L. Gardner	4 00
Six distinct named varieties, one of each, Nathaniel T. Kidder	6 00
Second, Joseph Brierly	4 00
Third, Dr. C. G. Weld	3 00
Three distinct named varieties, one of each, Joseph S. Fay	3 00
Second, Joseph Brierly	2 00
Third, Francis Brown Hayes	1 00
Moss Roses. — Six distinct named varieties, three clusters of each, Joseph S. Fay	6 00
Second, John B. Moore & Son	4 00
Third, John L. Gardner	3 00
General Display. — One hundred bottles of Hardy Roses, Mrs. E. M. Gill	10 00
Second, John L. Gardner	9 00
Third, Norton Brothers	8 00
Fourth, E. Sheppard & Son	7 00
Fifth, Francis Brown Hayes	6 00
Tuberous Begonias. — Twelve spikes of not less than four varieties, Joseph H. White	3 00
Herbaceous Pæonies. — Ten named varieties, Thomas C. Thurlow,	10 00
Sweet Williams. — Thirty spikes, not less than six distinct varieties, E. Sheppard & Son	4 00
Second, Frederick S. Davis	3 00
Third, William C. Winter	2 00
Vase of Flowers. — Best arranged, in one of the Society's glass vases, Mrs. A. D. Wood	5 00
Second, Mrs. E. M. Gill	4 00

Gratuities:

Joseph S. Fay, Display of Roses	10 00
William H. Spooner, Display of Roses	5 00
John B. Moore & Son, " " "	5 00
Joseph Brierly, " " "	2 00
Warren Heustis & Son, " " "	2 00

William Patterson, Six Blooms of Rose Her Majesty	$2 00
George P. Hayward, Vase of Gen. Jacqueminot Roses	1 00
John W. Stobbart, Cut Roses	1 00
Francis Brown Hayes, Rhododendrons and Roses	3 00
Benjamin D. Hill, Pæonies	3 00
Arthur H. Fewkes, "	1 00
Mrs. E. M. Gill, Sweet Williams	1 00
John L. Gardner, " "	1 00
E. Sheppard & Son, " " and Geraniums	1 00
William C. Strong, Delphiniums, Sweet Williams, and Pæonies	3 00
Frederick W. Vanderbilt, Newport, R.I., Sweet Williams, Pansies, and Pyrethrums	2 00
Thomas C. Thurlow, *Kalmia latifolia*, red variety	2 00
Edwin A. Hall, Kalmias	1 00
Robert C. Winthrop, Collection of Gloxinias	3 00
William C. Strong, Collection of Maples	2 00
Joseph S. Fay, Pansies	1 00
Thaddeus Hale, Hardy Pinks	1 00
Temple & Beard, Hardy Herbaceous Plants	4 00
Bussey Institution, " " "	3 00
Benjamin Grey, Aquatic Plants	3 00
Mrs. P. D. Richards, Wild Flowers	2 00

JUNE 27.

Gratuities:

Frederick S. Davis, Collection of Sweet Williams	2 00
Francis Brown Hayes, Collection of Hybrid Roses	2 00
Benjamin D. Hill, Herbaceous Pæonies *Humeii*	2 00
Mrs. E. S. Joyce, Perennial Peas	1 00

JULY 11.

IRIS KÆMPFERI. — Fifteen varieties, three of each, in vases, John L. Gardner	8 00
DELPHINIUMS. — Collection of twenty spikes, John L. Gardner	5 00
Second, Anthony McLaren	4 00
LILIUM CANDIDUM. — Twelve spikes, John L. Gardner	4 00
Second, Leverett M. Chase	3 00
HARDY CARNATIONS AND PICOTEES. — Twelve cut blooms, distinct named varieties, William C. Winter	3 00
HERBACEOUS PLANTS. — Best arranged collection, filling fifty bottles, J. W. Manning	5 00
Second, Nathaniel T. Kidder	4 00
Third, Temple & Beard	3 00
BASKET OF FLOWERS. — Mrs. A. D. Wood	5 00
Second, Mrs. E. M. Gill	4 00
VASE OF FLOWERS. — Best arranged, in one of the Society's glass vases, Mrs. E. M. Gill	4 00

NATIVE PLANTS. — Fifty bottles, Mrs. P. D. Richards	$5 00
Second, E. H. Hitchings	4 00
Third, Walter E. Coburn	3 00
Gratuities:	
H. H. Hunnewell, *Iris Kæmpferi*	4 00
E. Sheppard & Son, " "	4 00
John L. Gardner, " "	2 00
" " " Delphiniums	2 00
Benjamin D. Hill, Delphiniums, etc.	1 00
Mrs. E. M. Gill, Herbaceous Plants	1 00
John W. Stobbart, Double Poppies, Sweet Peas, etc.	2 00
Benjamin D. Hill, Japanese Lilies	2 00
Jackson Dawson, Fruiting Shrubs	2 00
Francis Brown Hayes, Nymphæas	1 00

JULY 18.

HOLLYHOCKS. — Double, twelve blooms, of twelve distinct colors, in the Society's flat fruit dishes, Joseph S. Fay	5 00
Second, Nathaniel T. Kidder	4 00
Six blooms, of six distinct colors, in the Society's flat fruit dishes, Joseph S. Fay	3 00
Second, Mrs. E. M. Gill	2 00
Third, Nathaniel T. Kidder	1 00
Twelve spikes, Joseph S. Fay	5 00
PARLOR BOUQUET. — Mrs. A. D. Wood	4 00
Second, Mrs. E. M. Gill	3 00
Gratuities:	
Joseph S. Fay, Twelve spikes of Hollyhocks	4 00
" " " Six dishes "	3 00
Nathaniel T. Kidder, Twelve spikes "	3 00
" " " Three dishes "	1 00
Rev. T. W. Hutchins, Collection of Sweet Peas	3 00
Richard T. Lombard, Tropæolums and Peas	1 00
Samuel Hartwell, Sweet Peas and Yucca	1 00
Frederick S. Davis, Shirley Poppies	1 00
William C. Winter, Carnations	1 00
E. Sheppard & Son, Cannas, Iris, etc.	1 00
Mrs. E. S. Joyce, Cut Flowers	1 00
Mrs. E. M. Gill, " "	1 00
Mrs. P. D. Richards, Wild Flowers	2 00

JULY 25.

GLOXINIAS. — Display of Cut Flowers, A. Galbraith	4 00
NATIVE FERNS. — Best Display, Mrs. P. D. Richards	5 00
Second, Robert T. Jackson	4 00
Third, Walter E. Coburn	3 00

Gratuities:

Joseph S. Fay, Collection of Hollyhocks	$15 00
A. A. Hixon, Dahlias, Begonias, etc.	1 00
William C. Winter, Dahlias	1 00
Mrs. Starkes Whiton, "	1 00
E. S. Hill, Collection of Petunias	1 00
Francis Brown Hayes, Cut Flowers	2 00
Mrs. E. M. Gill, " "	1 00
Walter E. Coburn, Wild Flowers	1 00

AUGUST 1.

Special Prospective Prize offered by Marshall B. Faxon.

SWEET PEAS. — For the best display, other foliage than that of Sweet Peas admissible, taken by the same person or firm twice in three years, a Silver Vase, value 25 00

Taken, 1891 (the second year), by William Patterson.

Regular Prizes.

SWEET PEAS. — Display, filling thirty vases, H. A. Jones	6 00
Second, James F. C. Hyde	4 00
Third, Rose Buxton	3 00
HERBACEOUS PLANTS. — Fifty bottles, Nathaniel T. Kidder	4 00
Second, J. W. Manning	3 00
BASKET OF FLOWERS. — Mrs. E. M. Gill	4 00

Gratuities:

Charles W. Hallstrom, Sweet Peas	2 00
Benjamin D. Hill, Seedling Clematis	1 00
Francis Brown Hayes, Cut Flowers	2 00
E. S. Hill, " "	1 00
Mrs. E. M. Gill, " "	1 00
Mrs. P. D. Richards, Native flowers	3 00

AUGUST 8.

PERENNIAL PHLOX. — Ten distinct named varieties, Arthur H. Fewkes	5 00
Second, Francis Brown Hayes	4 00
Third, William C. Winter	3 00
VASE OF FLOWERS. — Mrs. E. M. Gill	4 00
Second, Mrs. A. D. Wood	3 00
NATIVE FLOWERS. — Collection, fifty bottles, Mrs. P. D. Richards,	5 00
Second, E. H. Hitchings	4 00
Third, Walter E. Coburn	3 00

Gratuities:

E. Sheppard & Son, Phlox and Dahlias	1 00
Francis Brown Hayes, Roses, Lilies, etc.	3 00

William C. Strong, Eighteen spikes Gladioli	$2 00
J. Warren Clark, Gladioli	2 00
L. W. Goodell, Poppies, Annual Phlox, and Dianthus	2 00
E. S. Hill, Petunias, etc.	1 00
William C. Winter, Dahlias	1 00
Richard T. Lombard, Asters	1 00
John L. Gardner, Cut Flowers	3 00
Mrs. E. M. Gill, " "	1 00

AUGUST 15.

GLADIOLI. — Twenty named varieties, in spikes, William C. Strong,	6 00
Second, J. Warren Clark	5 00
Ten named varieties, in spikes, William C. Strong	3 00
Second, J. Warren Clark	2 00
Six named varieties, in spikes, A. Galbraith	2 00
Second, J. Warren Clark	1 00
Display of named and unnamed varieties, filling one hundred vases, Richard T. Lombard	8 00
Second, J. Warren Clark	6 00
PHLOX DRUMMONDI. — Thirty vases, not less than six varieties, Nathaniel T. Kidder	4 00
Second, A. Galbraith	3 00
Third, Dr. C. G. Weld	2 00

Gratuities:

Dr. C. G. Weld, Seedling Gladioli	3 00
William E. Endicott, " "	2 00
Richard T. Lombard, Asters	2 00
Mrs. Rose Buxton, Asters and Lilies	2 00
R. & J. Farquhar & Co., Flowering Cannas	3 00
Arthur H. Fewkes, " "	1 00
E. S. Hill, Petunias, etc.	1 00
William C. Winter, Dahlias	1 00
Francis Brown Hayes, Cut Flowers	5 00
John L. Gardner, " "	5 00
Mrs. A. D. Wood, " "	1 00
Mrs. E. M. Gill, " "	1 00
John Parker, " "	1 00
Mrs. P. D. Richards, Wild Flowers	2 00

ANNUAL EXHIBITION OF PLANTS AND FLOWERS.

SEPTEMBER 1, 2, 3, AND 4.

Special Prizes, from the Theodore Lyman Fund.

FLORAL DESIGN. — For the best, and best kept for three days, the Third Prize to Richard T. Lombard, the Lyman Plate, value	25 00

Special Prize, offered by Peter Henderson & Co., New York.

ANNUALS. — For the best collection, filling one hundred vases, the Second Prize to Rose Buxton, a piece of plate, value . . $15 00

Special Prizes, offered by Parker & Wood, Boston.

LARGE FLOWERED ASTERS. — For the best collection, one hundred vases, three in each vase, Joseph H. White, a piece of plate, value 25 00
Second, Richard T. Lombard, a piece of plate, value . . 15 00

Special Prizes, offered by J. C. Vaughan, Chicago.

LARGE FLOWERED DAHLIAS. — For the best collection, not less than twenty varieties, filling fifty vases, William C. Winter, a piece of plate, value 25 00
LILIPUTIAN DAHLIAS. — For the best collection, with buds and foliage, filling fifty vases, three in each vase, J. F. Marble, a piece of plate, value 15 00

Special Prizes, offered by the Boston Gardeners and Florists' Club.

MANTEL DECORATION. — For the best, Bowditch & Long . . 100 00
Second, Mrs. E. M. Gill 50 00

Regular Prizes.

DAHLIAS. — Double, twelve blooms, distinct named varieties, William C. Winter 6 00
Second, E. Sheppard & Son 5 00
Six blooms, distinct named varieties, John Parker . . . 4 00
Second, William C. Winter 3 00
Third, " " " 2 00
Specimen bloom, William C. Winter 2 00
Second, " " " 1 00
Liliputian, display, twenty-five bottles, not less than eight named varieties, William C. Winter 4 00
Single, display, twenty-five spikes, not less than eight varieties, the third prize to William C. Winter 2 00
ASTERS. — Large Flowered, of all classes, fifty vases, not less than twelve varieties, Frederick W. Vanderbilt, Newport, R.I. . 5 00
Second, Mrs. Mary T. Goddard 4 00
Third, Joseph H. White 3 00
Truffaut's Pæony Flowered, thirty blooms, not less than twelve varieties, Mrs. Mary T. Goddard 5 00
Victoria Flowered, thirty blooms, not less than twelve varieties, Mrs. Mary T. Goddard 5 00
Second, William Patterson 4 00

Pompon, thirty cut plants, not less than six varieties, Richard T. Lombard	$4 00
LILIUM LANCIFOLIUM. — Collection, Thomas C. Thurlow	3 00
Second, Frederick W. Vanderbilt, Newport, R.I.	2 00
TROPÆOLUMS. — Display, filling twenty-five vases, Dr. C. G. Weld,	4 00
MARIGOLDS. — Display, filling twenty-five vases, Frederick S. Davis,	3 00
Second, Mrs. E. M. Gill	2 00
CANNAS. — Collection, of not less than ten flowering varieties, in spikes, with foliage, R. & J. Farquhar & Co.	6 00
Second, James S. Cowles, Newport, R.I.	5 00
Third, William Patterson	4 00
TUBEROUS BEGONIAS. — Twelve spikes, not less than four varieties, the second prize to William C. Winter	2 00
DOUBLE ZINNIAS. — Twenty-five flowers, not less than six varieties, Dr. C. G. Weld	4 00
Second, Frederick S. Davis	3 00
Third, Mrs. E. M. Gill	2 00
HERBACEOUS PLANTS. — Fifty bottles, J. W. Manning	5 00
Second, Nathaniel T. Kidder	4 00
Third, Temple & Beard	3 00
BASKET OF FLOWERS. — Best arranged, Mrs. E. M. Gill	4 00
Second, Richard T. Lombard	3 00
NATIVE FLOWERS. — Display, fifty bottles, Mrs. P. D. Richards	5 00
Second, Walter E. Coburn	4 00

Gratuities:

E. Sheppard & Son, Dahlias, Asters, etc.	2 00
E. S. Hill, Petunias and Dahlias	1 00
Benjamin D. Hill, Lilies, Clematis, etc.	1 00
Frederick W. Vanderbilt, Newport, R.I., *Lilium auratum*	1 00
William C. Strong, *Lilium Wallichianum superbum*	1 00
Seth Rich, Tuberous Begonias	2 00
Botanic Garden of Harvard University, Herbaceous Plants, etc.	10 00
J. Brydon, *Victoria regia* and Nymphæas	30 00
James S. Cowles, Newport, R.I., Water Lilies	8 00
Benjamin Grey, Cannas and Nymphæas	3 00
William C. Strong, Ornamental Trees and Shrubs	6 00
Jackson Dawson, Fruiting Shrubs	3 00
Francis Brown Hayes, Cut Flowers	2 00

SEPTEMBER 17.

Gratuity:

Robert Cameron, Botanic Garden of Harvard University, *Cereus triangularis*	2 00

OCTOBER 3.

PERENNIAL ASTERS. — Display of Native or introduced species and varieties, George Hollis	$5 00
Second, Mrs. P. D. Richards	4 00

Gratuities:

R. & J. Farquhar & Co., Cannas and Nasturtiums	3 00
Willliam C. Winter, Collection of Dahlias	1 00
E. Sheppard & Son, Dahlias	1 00
E. S. Hill, Pompon "	1 00
Mrs. Rose Buxton, Cut Flowers	2 00

CHRYSANTHEMUM SHOW.

NOVEMBER 10, 11, 12, AND 13.

Special Prizes from the Josiah Bradlee Fund.

CHRYSANTHEMUMS. — Fifty blooms, S. J. Coleman, the Bradlee plate value	30 00
Six vases of six named varieties, twelve blooms each, Charles V. Whitten	20 00
Second, William Edgar	18 00

Special Prizes, offered by the Boston Gardeners and Florists' Club.

Ten vases of ten named kinds, ten blooms each, S. J. Coleman	75 00
Second, William Edgar	50 00

Special Prize offered by Peter Henderson & Co.

For the best six blooms of Louis Bœhmer, S. J. Coleman, a piece of plate, value	25 00

Special Prizes, offered by the Society.

Best Seedling, never disseminated, three blooms, Pitcher & Manda, Short Hills, N.J.	6 00
Second, Henry A. Gane	5 00
Third, George B. Gill	4 00

Regular Prizes.

Twelve cut blooms, Large Flowered or Chinese, named, in vases, E. A. Wood	10 00
Second, Joseph H. White	8 00
Twelve cut blooms, Japanese, named, in vases, John Simpkins	10 00
Second, Arthur H. Fewkes	8 00
Third, E. A. Wood	4 00

Six cut blooms, Large Flowered or Chinese, named, in vases, E. A. Wood	$6 00
Second, Joseph H. White	4 00
Third, Dr. C. G. Weld	2 00
Six cut blooms, Japanese, named, in vases, Arthur H. Fewkes	6 00
Second, George B. Gill	4 00
Third, E. A. Wood	2 00
Six cut blooms, Anemone, named, in vases, Dr. C. G. Weld	6 00
Second, Bussey Institution	4 00
Third, George Hollis	2 00
Display of Cut Sprays, of all classes, filling a fifty-bottle stand, Joseph H. White	16 00
Second, Francis Brown Hayes	14 00
Third, Mrs. E. M. Gill	12 00
Fourth, Dr. C. G. Weld	10 00
Fifth, Bussey Institution	8 00
Collection of blooms, not less than twelve varieties, sent out the current year, Arthur H. Fewkes	8 00
Second, E. A. Wood	6 00

Gratuities:

Charles V. Whitten, Two Vases of Chrysanthemums	15 00
John Simpkins, Three " " "	10 00
E. M. Wood, Six " " "	8 00
Francis Brown Hayes, Two " " "	3 00
George M. Anderson, Two " " "	2 00
Richard T. Lombard, Eighty varieties of Chrysanthemums	5 00
Francis Brown Hayes, Cut Chrysanthemums	5 00
Arthur H. Fewkes, " "	2 00
George Seaverns, " "	1 00
E. M. Wood, Nine Vases of Tea Roses	6 00
F. R. Pierson, Three Vases of Roses	6 00
J. Frank Curtis, Two Vases of Tea Roses	2 00
James Tulis, Six Vases of Carnations	3 00
George McWilliam, Orchids and Dipladenias	2 00
R. & J. Farquhar & Co., Anemones and Schizostylis	1 00

DECEMBER 12.

Gratuity:

George McWilliam, Display of *Calanthe Veitchii* and *Luculia gratissima*	3 00

APPLETON SILVER MEDAL.

J. W. Manning, Best Collection of Herbaceous Plants, exhibited at stated times during the season, as specified in the Schedule.

APPLETON BRONZE MEDAL.

Nathaniel T. Kidder, Second Best Collection of Herbaceous Plants, exhibited at stated times during the season, as specified in the Schedule.

SOCIETY'S SILVER MEDALS.

Chrysanthemum Show, November 10–13. — Pitcher & Manda, for Seedling Chrysanthemum, Harry May.
" " " " Henry A. Gane, for Seedling Chrysanthemum, Mrs. Jerome Jones.

FIRST CLASS CERTIFICATES OF MERIT.

January 31. Arthur H. Fewkes, *Clivia miniata* John L. Flanders.
Spring Exhibition, March 31. John H. Pond, Seedling Carnation, Golden Triumph.
" " " " Lawrence Cotter, Superior Cultivation of Rose Ulrich Brunner.
" " " " James Comley, Seedling Rose, Oakmont.
May 30. M. H. Walsh, Superior Cultivation of Pansies.
June 27. John C. Hovey, Seedling Pæony, Milton Hill.
August 1. H. H. Hunnewell, *Lilium Wallichianum superbum*.
August 22. R. & J. Farquhar & Co., Collection of Asters.
Chrysanthemum Show, November 10. Sewell Fisher, Seedling Carnation, No. 113.
" " " " R. & J. Farquhar & Co., Twenty-five Seedling Cannas.
" " " " C. D. Kingman, Seedling Chrysanthemums, Eglantine and Kildare.
" " " " Pitcher & Manda, Short Hills, N.J., Seedling Chrysanthemum, Annie Manda.
" " " " Norris F. Comley, Seedling Chrysanthemum, No. 21.
" " " " T. D. Hatfield, Seedling Chrysanthemums of 1891.
" " " " George B. Gill, Seedling Chrysanthemum, Adeline Bradbury.
" " " " Jacob Eaton, Jr., Seedling Chrysanthemums, 1–'91 and 2–'91.
" " " " T. D. Hatfield, Seedling Chrysanthemum, Walter Hunnewell.
" " " " James Wheeler, Seedling Chrysanthemum, Joseph H. White.

HONORABLE MENTION.

January 31. Richard T. Lombard, New Yellow Carnation, Golden Triumph.
February 7. John Fottler, Jr., New Tropæolum.
" " Jackson Dawson, New Lily from Formosa.
" 28. H. H. Hunnewell, *Phalænopsis Stuartiana.*
Spring Exhibition, March 31. J. C. Chambers, Toughkenamon, Pa., New Carnation, Grace Darling.
" " " " Benjamin Grey, Fifty varieties of *Dendrobium nobile.*
June 6. Pitcher & Manda, Short Hills, N.J., Pæonies, etc.
Rose Exhibition, June 23. Benjamin Grey, New Nelumbiums and Nymphæas.
" " " " Bussey Institution, *Rhododendron maximum*, var.
August 1. William E. Endicott, Seedling *Gladiolus Lemoinii*, Hybrid.
" 15. Dr. C. G. Weld, Seedling Gladiolus, Dr. C. G. Weld.
" 22. J. Warren Clark, Collection of Gladioli.
" " William C. Strong, " " "
" " George A. Nickerson, Collection of Asters.
" " Frederick W. Vanderbilt, Newport, R.I., Collection of Asters.
Annual Exhibition, September 1. James S. Cowles, Newport, R.I., Chrysanthemum Golden Fleece.
" " " " Joseph Breck & Son, Gloxinias, Hetherset Hybrids.
Chrysanthemum Show, November 10. John H. Dunlop, Toronto, Canada, New Rose Toronto.

REPORT

OF THE

COMMITTEE ON FRUITS,

FOR THE YEAR 1891.

By E. W. WOOD, Chairman.

The past season has been more than usually favorable for an abundant fruit crop. The small fruits passed through the winter of 1890–91 with comparatively little injury, and the weather during the months of April, May, and June, though it caused slight suffering in some localities from drought, and from late frosts, was on the whole favorable for their growth. The strawberry yield was more than an average, and the weather at the time of picking, with the exception of one or two rainy days, was cool, and favorable for gathering the crop. The fruit met with ready sale at prices satisfactory to the growers.

The apple crop has never been excelled in quantity or quality in an odd calendar year within the memory of present growers. The trees that blossomed last year, as usual on the even year, but failed to set their fruit, have borne an abundant crop the past season, of unusually smooth and fair fruit.

The pear crop has been largely in excess of former years, and as the early fruit came upon the market when it was overstocked with peaches — both native and from more Southern States — the prices realized have been lower than for many years.

The blossom buds on the peach trees suffered less injury than for several years, the result being an unusually large crop, affording consumers an opportunity of securing this fruit picked fresh from the trees in the best possible condition.

The Strawberry Show, June 23 and 24, was an all round successful exhibition; while void of any specially marked features, the quality of the fruit as a whole was an advance on previous years. Some of the recently introduced varieties were successful competitors with the older and well-known kinds. This was especially true of the Jesse, Bubach, and Haverland. There were also several promising seedlings shown, but they have not been sufficiently tested in different locations to entitle them to recommendation for general cultivation. The competition for some of the prizes was so close as to make the awards of the Committee, however given, liable to criticism.

The show of small fruits at the weekly exhibitions as a whole compared favorably with past years. Most of the prizes offered for the different classes were taken with the exception of those for cherries. For several varieties of this fruit, for which premiums were offered, there was no competition. When we consider the ease with which the cherry may be grown, and the ornamental character of the trees, — especially the heart varieties, — it seems strange that more attention is not paid to its cultivation.

At the Annual Exhibition there was an unusually large amount of fruit shown. Though the apples and pears did not average as large as in some previous years, they were remarkably free from imperfections.

The only fruit showing a decrease in the amount exhibited was the plum, many former exhibitors having lost their trees by the disease known as the black wart. The favorable reports from different parts of the State on the use of kerosene in preventing the warts getting a lodgment on the trees, would seem to suggest cutting and burning the trees already so infested as to be beyond cure, and setting young trees and applying the kerosene when the warts first make their appearance. As a further effort in this direction, it would seem desirable that there should be some concerted action for the removal of the wild cherry trees from the road-sides, and the shrubby growths in the fields. The tree is of comparatively little value, its principal product being black warts and tent caterpillars; and however painstaking the fruit-grower may be in removing these pests from his apple and plum trees, the wild cherry will furnish a prolific breeding ground for the next season's supply.

At the October and November exhibitions there was a large

quantity of fruit shown, and the autumn and winter fruit was much larger, and in better condition, than at the annual exhibition. At the October exhibition we had had no frosts, and the weather having been warm and dry the grapes were shown in very fine condition. The prizes offered for fruit from girdled vines were taken by fine specimens and well ripened bunches. The Agricultural College made an excellent display of grapes and peaches at the Annual Exhibition, again bringing portions of vines with foliage showing the beneficial effects of spraying with the Bordeaux mixture. Messrs. Ellwanger & Barry, of Rochester, N.Y., exhibited about one hundred varieties of pears, among them some new varieties, and some of the well-known kinds of marked excellence.

The increased exhibits within the past few years have rendered it impracticable, if not impossible, to hold a combined annual exhibition of fruits, flowers, and vegetables, within the limits of the two halls in this building, and the plan has become established, for the immediate future at least, of holding the Annual Plant and Flower Show the first week in September, and, as all the autumn and winter fruits can be shown in better condition in October than in September, it has been thought advisable to hold one more Saturday exhibition about the middle of September, and the Annual Fruit and Vegetable Exhibition the first week in October.

This arrangement will give about the same space of time between the three fall exhibitions, at which an admission fee is charged; the Plant and Flower Exhibition the first week in September, the Fruit and Vegetable Show the first week in October, and the Chrysanthemum Show the first or second week in November. It is hoped that this change in time will enable the Committee to secure a more complete exhibit of preserved and dried fruit. This is an important and rapidly growing industry in some parts of the country, but has received comparatively little attention in this vicinity.

Of the $1,700 appropriated for the Fruit Committee, there have been awarded in prizes and gratuities $1,651, leaving an unexpended balance of $49.

E. W. Wood,
J. W. Hill,
Warren Fenno,
C. F. Curtis,
Samuel Hartwell.
} *Committee on Fruits.*

PRIZES AND GRATUITIES AWARDED FOR FRUITS.

JANUARY 3.

Gratuities:

Edwin A. Hall, Collection of Pears	$2 00
Arthur Timmins, " " "	2 00

FEBRUARY 7.

Gratuity:

Edwin A. Hall, Collection of Pears	1 00

SPRING EXHIBITION.

MARCH 31 AND APRIL 1, 2, AND 3.

WINTER APPLES. — William T. Hall, Northern Spy	3 00
Second, William H. Hunt, Hunt Russet	2 00
WINTER PEARS. — Edwin A. Hall, Winter Nelis	3 00
Second, Edwin A. Hall, Easter Beurre	2 00

Gratuity:

George McWilliam, Foreign Grapes	3 00

MAY 9.

Gratuity:

Winter Brothers, Foreign Grapes	2 00

JUNE 6.

Gratuities:

Charles Whittier, Grape Fruit (*Citrus Pompelmos racemosus*)	2 00
Winter Brothers, Peaches	2 00

JUNE 13.

Gratuities:

Isaac E. Coburn, Jesse and Haverland Strawberries	2 00
William Doran & Son, Strawberries	1 00
Campbell & Gowing, Seedling Strawberries	1 00
F. H. Allen, Pineapples	1 00

JUNE 20.

Gratuity:

Campbell & Gowing, Seedling Strawberry, Leader, First Class Certificate of Merit.

ROSE AND STRAWBERRY EXHIBITION.

JUNE 23 AND 24.

Special Prizes from the Theodore Lyman Fund.

STRAWBERRIES. — For the best four quarts of any variety, James S. Cowles, Newport, R.I., Sharpless	$20 00
Second, Varnum Frost, Belmont	16 00
Third, George V. Fletcher, Belmont	12 00

Special Prizes offered by the Society.

For the best two quarts of any variety, to be judged by points, Isaac E. Coburn, Jesse	6 00
Second, Varnum Frost, Belmont	5 00
Third, Benjamin M. Smith, Beverly	4 00
Fourth, Jeremiah Briggs, Briggs	3 00

Regular Prizes.

For the largest and best collection, not less than twenty baskets, of two quarts each, and not less than five varieties, Isaac E. Coburn	25 00
Second, George V. Fletcher	20 00
For the best ten baskets, of two quarts each, not less than three varieties, Varnum Frost	15 00
For five baskets of one variety, two quarts each, Varnum Frost, Belmont	8 00
Second, Varnum Frost, Sharpless	6 00
Two quarts of Belmont, Varnum Frost	4 00
Second, George V. Fletcher	3 00
Third, George F. Wheeler	2 00
Bidwell F. J. Kinney	4 00
Second, Isaac E. Coburn	3 00
Bubach, Isaac E. Coburn	4 00
Second, George F. Wheeler	3 00
Third, F. J. Kinney	2 00
Champion, George F. Wheeler	4 00
Second, George V. Fletcher	3 00
Third, Isaac E. Coburn	2 00
Charles Downing, George F. Wheeler	4 00
Second, Charles S. Smith	3 00
Third, William Christie	2 00
Crescent, William H. Hunt	4 00
Second, George F. Wheeler	3 00
Third, Isaac E. Coburn	2 00
Cumberland, George F. Wheeler	4 00

Jesse, Isaac E. Coburn	$4 00
Second, F. J. Kinney	3 00
Third, George F. Wheeler	2 00
Jewell, Varnum Frost	4 00
May King, Isaac E. Coburn	4 00
Second, George F. Wheeler	3 00
Third, F. J. Kinney	2 00
Miner's Prolific, F. J. Kinney	4 00
Second, Charles S. Smith	3 00
Third, George F. Wheeler	2 00
Sharpless, George V. Fletcher	4 00
Second, Varnum Frost	3 00
Third, William Christie	2 00
Two quarts of any other variety, F. J. Kinney, Jucunda	4 00
Second, Isaac E. Coburn, Haverland	3 00
Third, George F. Wheeler, "	2 00
Collection of not less than six varieties, one quart each, Isaac E. Coburn	8 00
Second, George F. Wheeler	6 00
One quart of any new variety, not previously exhibited, Campbell & Gowing, Leader	3 00
Second, F. J. Kinney, No. 24	2 00
CHERRIES. — Two quarts of any variety, George V. Fletcher	4 00
Second, William C. Eustis	3 00
Third, Edwin Hastings	2 00
FOREIGN GRAPES. — Two bunches of any variety, Winter Brothers, Muscat of Alexandria	6 00
Second, Joseph H. White, Black Hamburg	4 00
FORCED PEACHES. — Winter Brothers, Waterloo	3 00
Second, Winter Brothers, Amsden	2 00

JUNE 27.

Gratuity:

Leverett M. Chase, Cherries	1 00

JULY 11.

STRAWBERRIES. — One quart of any variety, Warren Heustis & Son, Belmont	3 00
Second, Benjamin M. Smith, Beverly	2 00
Third, F. J. Kinney, No. 24	1 00
CHERRIES. — Two quarts of Black Tartarian, Leverett M. Chase	3 00
Two quarts of Downer's Late, F. J. Kinney	3 00
Second, E. W. Wood	2 00
Third, Charles N. Brackett	1 00
Two quarts of any other variety, Warren Fenno, Norfolk	3 00
Second, Charles S. Smith, Hyde's Seedling	2 00
Third, Samuel Hartwell, Luelling	1 00

CURRANTS. — Two quarts of any Red variety, Benjamin G. Smith, Fay's	$4 00
Second, Samuel H. Warren, Fay's	3 00
Third, William Doran & Son, Versaillaise	2 00
Two quarts of any White variety, F. J. Kinney, White Grape	3 00
Second, Benjamin G. Smith, French Transparent	2 00
RASPBERRIES. — Two quarts of any variety, F. J. Kinney, Marlboro'	3 00
Second, William Doran & Son, Franconia	2 00
Third, Charles E. Grant, Cuthbert	1 00
Gratuities:	
Mrs. E. M. Gill, Strawberries	1 00
John W. Stobbart, Peaches	1 00

JULY 18.

RASPBERRIES. — Collection of not less than four varieties, William Doran & Son	4 00
Two quarts of any variety, F. J. Kinney, Cuthbert	3 00
William H. Hunt, Cuthbert	2 00
CURRANTS. — One quart of Versaillaise, William Doran & Son	2 00
Second, Benjamin G. Smith	1 00
One quart of any White variety, F. J. Kinney, White Grape	2 00
Second, Benjamin G. Smith, Dana's Transparent	1 00
GOOSEBERRIES. — Two quarts of any Native variety, Benjamin G. Smith, Smith's Improved	3 00
Second, Benjamin G. Smith, Downing	2 00
Gratuities:	
F. J. Kinney, Strawberries	1 00
Amos Bates, Seedling Gooseberries, First Class Certificate of Merit.	

JULY 25.

RASPBERRIES. — Two quarts of any variety, F. J. Kinney	3 00
Second, Charles E. Grant	2 00
Third, H. R. Kinney	1 00
CURRANTS. — One quart of any Red variety, A. Galbraith, Versaillaise	3 00
Second, Benjamin G. Smith, Fay's	2 00
Third, Mrs. E. M. Gill, Versaillaise	1 00
One quart of any White variety, Benjamin G. Smith, French Transparent	2 00
Second, F. J. Kinney, White Grape	1 00
BLACKBERRIES. — Two quarts of any variety, Nathaniel T. Kidder, Dorchester	3 00
Second, Marshall W. Chadbourne, Dorchester	2 00
Third, Leonard W. Weston, "	1 00

GOOSEBERRIES. — Two quarts of any Foreign variety, Winter Brothers, Industry	$3 00
Second, E. G. Howe, Whitesmith	2 00
Third, Mrs. E. M. Gill, "	2 00
Gratuity:	
Winter Brothers, Peaches and Apples	2 00

AUGUST 1.

BLACKBERRIES. — Two quarts of any variety, Nathaniel T. Kidder, Dorchester	3 00
Second, Leonard W. Weston, Dorchester	2 00
Third, Marshall W. Chadbourne, "	1 00
PEARS. — Summer Doyenne, Warren Fenno	3 00
Second, Leverett M. Chase	2 00
Third, Charles N. Brackett	1 00
Any other variety, Warren Fenno, Madeleine	3 00
Second, Calvin Terry, "	2 00
Third, Charles N. Brackett, Jargonelle	1 00
PEACHES. — Any variety, Winter Brothers, Waterloo	3 00
Second, J. Walter Howard, Hale's Early	2 00
Gratuities:	
Winter Brothers, Peaches and Gooseberries	1 00
Sarah M. Vose, Blackberries	1 00

AUGUST 8.

APPLES. — Early Harvest, Warren Fenno	2 00
Second, Winter Brothers	1 00
Red Astrachan, William T. Hall	3 00
Second, S. F. & F. L. Weston	2 00
Third, Warren Heustis & Son	1 00
Sweet Bough, Warren Heustis & Son	3 00
Second, George V. Fletcher	2 00
Third, Warren Fenno	1 00
Any other variety, Charles F. Curtis, Williams's Favorite	3 00
Second, Warren Heustis & Son, Sour Bough	2 00
Third, Asa Clement, Foundling	1 00
PEARS. — Giffard, Rufus T. Tobey	3 00
Second, L. A. Milman	2 00
Third, Warren Fenno	1 00
Any other variety, George Frost, Suprême de Quimper	3 00
Second, Nathan D. Harrington, Bloodgood	2 00
Third, Charles N. Brackett, "	1 00
BLACKBERRIES. — Any variety, Nathaniel T. Kidder, Dorchester	3 00
Second, Benjamin G. Smith, Dorchester	2 00
Third, Marshall W. Chadbourne, "	1 00

PEACHES. — Any variety, Winter Brothers, Waterloo	$3 00
Second, Winter Brothers, Hale's Early	2 00
Third, F. J. Kinney, Downing	1 00
Gratuity :	
Joseph H. White, Peaches	1 00

AUGUST 15.

APPLES. — Oldenburg, William T. Hall	3 00
Second, Samuel Hartwell	2 00
Third, Winter Brothers	1 00
PEARS. — Clapp's Favorite, Charles N. Brackett	3 00
Second, C. S. Hosmer	2 00
Third, J. M. Swett	1 00
Manning's Elizabeth, Mrs. Mary Langmaid	2 00
Second, J. Ware	1 00
APRICOTS. — Any variety, Charles E. Grant	3 00
Second, Warren Fenno	2 00
PEACHES. — Twelve specimens, of out-door culture, of any variety, R. & J. Farquhar, Early Silver	3 00
Second, Winter Brothers, Hale's Early	2 00
Third, Nathan D. Harrington, Seedling	1 00
Six specimens of cold house or pot culture, of any variety, Winter Brothers, Clarassa	3 00
Second, Joseph H. White, Crawford's Early	2 00
FOREIGN GRAPES. — Two bunches of any variety, Joseph H. White, Muscat of Alexandria	5 00
Second, Nathaniel T. Kidder, Black Hamburg	4 00
FIGS. — Any variety, Miss M. S. Walker	2 00
Gratuities :	
Joseph H. White, Nectarines	1 00
Samuel Hartwell, Apples	1 00
Warren Heustis & Son, Apples	1 00

AUGUST 22.

APPLES. — Chenango, Charles F. Curtis	3 00
Second, Samuel Hartwell	2 00
Williams's Favorite, Asa Clement	3 00
Second, Samuel Hartwell	2 00
Third, Reuben Handley	1 00
Any other variety, Samuel Hartwell, Summer Pippin	3 00
Second, Warren Fenno, " "	2 00
Third, Asa Clement, Foundling	1 00

PEARS. — Bartlett, Mrs. Mary Langmaid	$3 00
Second, J. M. Swett	2 00
Third, L. A. Milman	1 00
Rostiezer, S. F. & F. L. Weston	3 00
Second, George Frost	2 00
Third, Charles N. Brackett	1 00
Tyson, John L. Bird	3 00
Second, J. M. Swett	2 00
Third, Samuel Hartwell	1 00
Any other variety, Charles N. Brackett, Clapp's Favorite	3 00
Second, Francis Brown Hayes, " "	2 00
Third, Aaron S. McIntosh, " "	1 00
PEACHES. — Any variety, Winter Brothers, Clarassa	3 00
Second, Nathan D. Harrington, Crawford's Early	2 00
Third, Winter Brothers, Hale's Early	1 00
PLUMS. — Any variety, Warren Fenno, Washington	3 00
Second, Joseph S. Chase, Botan	2 00
Third, Winter Brothers, Washington	1 00
NATIVE GRAPES. — Six bunches of any variety, H. A. Stevens, Hartford	3 00

AUGUST 29.

APPLES. — Foundling, Asa Clement	3 00
Second, Leonard W. Weston	2 00
Third, Samuel Hartwell	1 00
Gravenstein, Samuel Hartwell	3 00
Second, A. M. Knowlton	2 00
Third, Charles S. Smith	1 00
Maiden's Blush, Charles S. Smith	3 00
Second, Warren Fenno	2 00
Porter, Samuel Hartwell	3 00
Second, Marshall W. Chadbourne	2 00
Third, S. F. & F. L. Weston	1 00
Any other variety, Asa Clement, Seek-no-further	3 00
Second, H. A. Stevens, Williams	2 00
Third, Samuel Hartwell, Stump	1 00
PEARS. — Andrews, Mrs. Mary Langmaid	3 00
Second, Benjamin G. Smith	2 00
Third, Warren Fenno	1 00
Boussock, Leverett M. Chase	3 00
Second, Mrs. Mary Langmaid	2 00
Third, H. A. Stevens	1 00
Any other variety, L. A. Milman, Bartlett	3 00
Second, Leverett M. Chase, "	2 00
Third, Mrs. Mary Langmaid, "	1 00
PEACHES. — Collection, Charles S. Smith	4 00
Second, Nathan D. Harrington	3 00

PLUMS. — Bradshaw, George V. Fletcher	$2 00
Second, Leverett M. Chase	1 00
Imperial Gage, Joseph S. Chase	2 00
Second, Mrs. Mary Langmaid	1 00
Jefferson, Samuel Hartwell	2 00
Lombard, Leverett M. Chase	2 00
Second, Joseph S. Chase	1 00
Any other variety, Charles F. Curtis, Niagara	2 00
Second, Mrs. Mary Langmaid, Coe's Golden Drop	1 00
NATIVE GRAPES. — Six bunches of Moore's Early, Samuel Hartwell,	3 00
Six bunches of any other variety, Stephen Hoyt's Sons, Canaan, Conn., Green Mountain	3 00
Second, H. A. Stevens, Hartford	2 00

ANNUAL EXHIBITION.

SEPTEMBER 15, 16, AND 17.

SPECIAL PRIZES.

Samuel Appleton Fund.

BALDWIN APPLES. — Best twelve, Samuel Hartwell	5 00
HUBBARDSTON APPLES. — Best twelve, Reuben Handley	5 00
BOSC PEARS. — Best twelve, Charles F. Curtis	5 00
SHELDON PEARS. — Best twelve, William Patterson	5 00

Benjamin V. French Fund.

GRAVENSTEIN APPLES. — Best twelve, Samuel Hartwell	5 00
RHODE ISLAND GREENING APPLES. — Best twelve, George V. Fletcher	5 00

Marshall P. Wilder Fund.

ANJOU PEARS. — Best twelve, William S. Janvrin	4 00
Second, Mrs. Mary Langmaid	3 00
Third, Samuel G. Damon	2 00
Fourth, George V. Fletcher	1 00
BARTLETT PEARS. — Best twelve, A. Galbraith	4 00
Second, George S. Harwood	3 00
Third, John L. Bird	2 00
Fourth, G. W. Wilkinson	1 00
CONCORD GRAPES. — Best six bunches, Arthur J. Bigelow	3 00
Second, William H. Hunt	2 00
Third, Samuel Hartwell	1 00
MOORE'S EARLY GRAPES. — Best six bunches, Samuel Hartwell	3 00

Special Prizes offered by the Society.

ANJOU PEARS. — Best twelve, Samuel Hartwell	5 00
BARTLETT PEARS. — Best twelve, Mrs. Mary Langmaid	5 00

SECKEL PEARS. — Best twelve, Dr. C. G. Weld	$5 00
PEACHES. — Best twelve of any variety, Charles S. Smith, Oldmixon,	5 00
NATIVE GRAPES. — Best twelve bunches of any variety, Samuel Hartwell, Moore's Early	5 00

REGULAR PRIZES.

Theodore Lyman Fund.

APPLES. — Baldwin, Samuel Hartwell	4 00
Second, Joshua T. Foster	3 00
Third, E. R. Cook	2 00
Danvers Sweet, Warren Fenno	3 00
Second, Mrs. Rose Buxton	2 00
Third, Benjamin P. Ware	1 00
Dutch Codlin, Aaron S. McIntosh	2 00
Second, Warren Fenno	1 00
Fall Orange, Asa Clement	3 00
Second, E. R. Cook	2 00
Third, Reuben Handley	1 00
Fameuse, Artemas Frost	3 00
Second, Benjamin G. Smith	2 00
Third, Marshall W. Chadbourne	1 00
Fletcher Russet, William H. Teel	3 00
Second, John Fletcher	2 00
Foundling, Asa Clement	3 00
Second, Charles S. Smith	2 00
Third, Leonard W. Weston	1 00
Garden Royal, Oliver B. Wyman	3 00
Second, A. M. Knowlton	2 00
Third, Warren Fenno	1 00
Golden Russet, Francis Brown Hayes	2 00
Second, Warren Fenno	1 00
Gravenstein, Samuel Hartwell	4 00
Second, William T. Hall	3 00
Third, Artemas Frost	2 00
Hubbardston, C. C. Shaw	4 00
Second, Artemas Frost	3 00
Third, Samuel Hartwell	2 00
Hunt Russet, Samuel Hartwell	3 00
Second, William H. Hunt	2 00
Third, Aaron S. McIntosh	1 00
Lady's Sweet, Oliver B. Wyman	2 00
Second, Asa Clement	1 00
Lyscom, O. B. Hadwen	2 00
Second, Asa Clement	1 00
Maiden's Blush, C. C. Shaw	2 00
Second, Charles S. Smith	1 00

Mother, William H. Teel	$3 00
Second, Asa Clement	2 00
Third, Warren Fenno	1 00
Northern Spy, William T. Hall	3 00
Second, Warren Fenno	2 00
Third, Samuel Hartwell	1 00
Porter, Samuel Hartwell	3 00
Second, Aaron S. McIntosh	2 00
Third, George M. Stevens	1 00
Pumpkin Sweet, Samuel Hartwell	2 00
Second, H. A. Stevens	1 00
Rhode Island Greening, E. R. Cook	4 00
Second, C. C. Shaw	3 00
Third, Aaron S. McIntosh	2 00
Roxbury Russet, C. C. Shaw	4 00
Second, George Sanderson	3 00
Third, E. R. Cook	2 00
Tolman Sweet, Asa Clement	3 00
Second, Artemas Frost	2 00
Third, Joshua T. Foster	1 00
Tompkins King, Walter E. Overend	3 00
Second, John Parker	2 00
Third, John Fletcher	1 00
Washington Royal or Palmer, O. B. Hadwen	3 00
Second, Charles N. Brackett	2 00
Washington Strawberry, Sarah W. Story	2 00
Second, Warren Fenno	1 00
Any other variety, Samuel Hartwell, Twenty Ounce	3 00
Second, Asa Clement, Seek-no-further	2 00
Third, Samuel Hartwell, Gloria Mundi	1 00
CRAB APPLES. — Hyslop, Twenty-four specimens, Artemas Frost	2 00
Second, Walter Russell	1 00
Transcendent, Twenty-four specimens, George W. Stevens	2 00
Second, Warren Fenno	1 00

Society's Prizes.

PEARS. — Angouleme, William S. Janvrin	4 00
Second, A. H. Lewis	3 00
Third, William T. Hall	2 00
Belle Lucrative, Leverett M. Chase	3 00
Second, Nathaniel T. Kidder	2 00
Third, Mrs. Rose Buxton	1 00
Bosc, Charles C. Field	4 00
Second, George S. Harwood	3 00
Third, Charles F. Curtis	2 00
Fourth, William P. Walker	1 00
Boussock, D. B. Fearing, Newport, R.I.	3 00

Second, Leverett M. Chase	$2 00
Third, George W. Eaton	1 00
Clairgeau, William T. Hall	3 00
Second, Charles F. Curtis	2 00
Third, Mrs. Mary Langmaid	1 00
Comice, Warren Fenno	3 00
Second, S. F. & F. L. Weston	2 00
Third, Charles N. Brackett	1 00
Dana's Hovey, Edwin A. Hall	3 00
Second, Eben Snow	2 00
Third, George Frost	1 00
Diel, Samuel G. Damon	3 00
Second, John J. Merrill	2 00
Third, Edwin A. Hall	1 00
Goodale, O. B. Hadwen	3 00
Hardy, Leverett M. Chase	3 00
Second, Rufus T. Tobey	2 00
Third, L. A. Milman	1 00
Howell, Mrs. Mary Langmaid	3 00
Second, William P. Walker	2 00
Third, William H. Hunt	1 00
Lawrence, Leverett M. Chase	3 00
Second, Warren Fenno	2 00
Third, Charles A. Smith	1 00
Louise Bonne of Jersey, Thomas M. Davis	3 00
Second, Frederick R. Shattuck	2 00
Third, George S. Harwood	1 00
Marie Louise, Warren Fenno	3 00
Second, Edwin A. Hall	2 00
Third, Aaron S. McIntosh	1 00
Merriam, Charles F. Curtis	3 00
Second, Samuel G. Damon	2 00
Third, Aaron S. McIntosh	1 00
Onondaga, Leverett M. Chase	3 00
Second, Thomas M. Davis	2 00
Third, Mrs. Dalton	1 00
Paradise of Autumn, L. A. Milman	3 00
Second, Leverett M. Chase	2 00
Third, Rufus T. Tobey	1 00
Seckel, Nathan D. Harrington	4 00
Second, A. Galbraith	3 00
Third, Warren Fenno	2 00
Sheldon, Mrs. Mary Langmaid	4 00
Second, Nathan D. Harrington	3 00
Third, Leverett M. Chase	2 00
Souvenir du Congrès, William Patterson	3 00
Second, Warren Fenno	2 00

Third, Charles N. Brackett	$1 00
St. Michael Archangel, Thomas M. Davis	3 00
Second, Benjamin G. Smith	2 00
Third, Benjamin P. Ware	1 00
Superfin, Samuel G. Damon	3 00
Second, Leverett M. Chase	2 00
Third, Warren Fenno	1 00
Urbaniste, Aaron S. McIntosh	3 00
Second, E. J. Hewins	2 00
Third, Nathaniel T. Kidder	1 00
Vicar, Leverett M. Chase	3 00
Second, John L. Bird	2 00
Third, Charles A. Smith	1 00
Winter Nelis, Thomas M. Davis	3 00
Second, E. W. Wood	2 00
Third, John L. Bird	1 00
Any other variety, Charles A. Smith, Adams	3 00
Second, S. F. & F. L. Weston, Fulton	2 00
Third, Frederick R. Shattuck	1 00
QUINCES. — Any variety, George S. Curtis	4 00
Second, Benjamin G. Smith	3 00
Third, George V. Fletcher	2 00
Fourth, Mrs. Mary T. Goddard	1 00
PEACHES. — Coolidge's Favorite, Charles S. Smith	3 00
Crawford's Early, Nathan D. Harrington	3 00
Second, Charles E. Grant	2 00
Third, P. G. Hanson	1 00
Foster, Samuel Hartwell	3 00
Second, Charles S. Smith	2 00
Oldmixon, Charles S. Smith	3 00
Stump the World, Charles S. Smith	3 00
Second, W. D. Hinds	2 00
Any other variety, W. D. Hinds	3 00
Second, Charles S. Smith	2 00
Third, William B. Towle	1 00
PEACHES, ORCHARD HOUSE CULTURE. — Any variety, D. B. Fearing, Newport, R.I.	4 00
Second, Joseph H. White	3 00
NECTARINES. — Any variety, C. C. Donnell	2 00
PLUMS. — Bradshaw, Mrs. Mary T. Goddard	2 00
Second, George V. Fletcher	1 00
Lombard, E. R. Cook	2 00
Second, Mrs. Mary T. Goddard	1 00
Any other variety, Winter Brothers	2 00
NATIVE GRAPES. — Six bunches of Cottage, William H. Hunt	3 00
Second, Samuel Hartwell	2 00
Third, Benjamin H. Ober	1 00

Delaware, Joseph S. Chase	$3 00
Second, Samuel Hartwell	2 00
Third, S. F. & F. L. Weston	1 00
Eumelan, Benjamin G. Smith	3 00
Massasoit, Benjamin G. Smith	3 00
Second, Joseph S. Chase	2 00
Third, F. J. Kinney	1 00
Wilder, Benjamin G. Smith	3 00
Second, E. R. Cook	2 00
Worden, F. J. Kinney	3 00
Second, Samuel Hartwell	2 00
Third, E. R. Cook	1 00
Any other variety, William H. Hunt, August Rose	3 00
Second, Samuel Hartwell	2 00
Third, Benjamin G. Smith	1 00
Concord, from girdled vines, Arthur J. Bigelow	3 00
Second, F. J. Kinney	2 00
Third, Samuel Hartwell	1 00
FOREIGN GRAPES. — Four varieties, two bunches each, E. W. Wood	10 00
Second, Benjamin G. Smith	8 00
Black Hamburg, two bunches, Nathaniel T. Kidder	5 00
Buckland Sweetwater, Nathaniel T. Kidder	5 00
Muscat of Alexandria, Joseph H. White	5 00
Any other variety, Joseph H. White	5 00
CRANBERRIES. — Half-peck, Mrs. Rose Buxton	3 00
Second, Amy C. Buxton	2 00

Gratuities:

Charles E. Grant, Apples	1 00
Aaron S. McIntosh, Apples and Pears	1 00
Francis Brown Hayes, Pears and Apples	3 00
John L. Bird, Pears	2 00
Charles N. Brackett, Pears	1 00
Massachusetts Agricultural College, Grapes and Peaches	20 00
George A. Nickerson, Foreign Grapes	5 00

SEPTEMBER 26.

Gratuity:

Samuel Hartwell, Peaches	1 00

EXHIBITION OF AUTUMN FRUITS AND VEGETABLES.

OCTOBER 3.

APPLES. — Gravenstein, Samuel Hartwell	$3 00
Second, William T. Hall	2 00
Third, Charles S. Smith	1 00
Holden, Charles S. Smith	3 00
Second, Charles E. Grant	2 00
Mother, William H. Teel	3 00
Porter, Warren Heustis & Son	3 00
Second, Charles S. Smith	2 00
Any other variety, V. C. Gilman	3 00
Second, Samuel Hartwell	2 00
PEARS. — Angouleme, William S. Janvrin	3 00
Second, George S. Curtis	2 00
Third, Nathan D. Harrington	1 00
Bosc, John J. Merrill	3 00
Second, William P. Walker	2 00
Third, Charles F. Curtis	1 00
Clairgeau, William T. Hall	3 00
Second, Samuel G. Damon	2 00
Third, Mrs. Mary Langmaid	1 00
Comice, John J. Merrill	3 00
Second, George S. Harwood	2 00
Third, Leverett M. Chase	1 00
Louise Bonne of Jersey, George Putney	3 00
Second, A. H. Lewis	2 00
Third, Thomas M. Davis	1 00
Seckel, Nathan D. Harrington	3 00
Second, A. Galbraith	2 00
Third, Dr. W. G. Kendall	1 00
Sheldon, George S. Harwood	3 00
Second, Mrs. C. E. Wiggin	2 00
Third, William Patterson	1 00
Superfin, Samuel G. Damon	3 00
Second, Rufus T. Tobey	2 00
Third, Thomas M. Davis	1 00
Urbaniste, Aaron S. McIntosh	3 00
Second, Charles E. Swain	2 00
Third, E. J. Hewins	1 00
Any other variety, William S. Janvrin, Anjou	3 00
Second, E. L. Draper, Diel	2 00
Third, Warren Fenno, Marie Louise	1 00
QUINCES. — Any variety, Benjamin G. Smith	3 00
Second, George S. Harwood	2 00
Third, William Christie	1 00

PEACHES. — Any variety, Nathan D. Harrington	$3 00
Second, William H. Hunt	2 00
Third, Winter Brothers	1 00
NATIVE GRAPES. — Brighton, Benjamin G. Smith	3 00
Second, Samuel Hartwell	2 00
Third, W. P. Hutchinson	1 00
Concord, William H. Hunt	3 00
Second, Charles F. Hayward	2 00
Third, George W. Jameson	1 00
Delaware, Charles F. Hayward	3 00
Second, Joseph S. Chase	2 00
Third, Samuel G. Damon	1 00
Herbert, Samuel G. Damon	3 00
Second, Joseph S. Chase	2 00
Iona, Henry W. Wilson	3 00
Second, Samuel G. Damon	2 00
Third, Benjamin G. Smith	1 00
Isabella, George W. Jameson	3 00
Second, Samuel G. Stone	2 00
Third, Benjamin G. Smith	1 00
Lindley, Benjamin G. Smith	3 00
Second, Joseph S. Chase	2 00
Massasoit, Benjamin G. Smith	3 00
Second, Joseph S. Chase	2 00
Third, Samuel G. Damon	1 00
Pocklington, A. C. Osborne	3 00
Second, Samuel Hartwell	2 00
Third, Samuel G. Damon	1 00
Prentiss, Benjamin G. Smith	3 00
Second, Samuel G. Damon	2 00
Third, Joseph S. Chase	1 00
Wilder, Benjamin G. Smith	3 00
Second, Samuel G. Damon	2 00
Any other variety, Samuel Hartwell, Worden	3 00
Second, Benjamin G. Smith, Eaton	2 00
Third, Charles F. Hayward, Niagara	1 00
FOREIGN GRAPES. — Joseph H. White, Muscat of Alexandria	4 00
Second, Nathaniel T. Kidder, Black Hamburg	3 00
Third, Benjamin G. Smith, Muscat of Alexandria	2 00

Gratuities:

W. A. Rooke, Fruitland Park, Florida, Persimmons	2 00
Henry W. Wilson, Cocoanuts	2 00
Caleb Bates, Figs	1 00

OCTOBER 10.

Gratuities:

William H. Lackey, Twenty Ounce Apples	$1 00
" " " Orange Quinces	1 00
J. Morrill, Jr., Bosc Pears	1 00

EXHIBITION OF WINTER FRUITS AND VEGETABLES.

SATURDAY, NOVEMBER 14.

Special Prizes, Benjamin V. French Fund.

BALDWIN APPLES. — Best twelve, Samuel Hartwell	5 00
HUBBARDSTON APPLES. — Best twelve, J. E. Cuthbertson	5 00

Society's Prizes.

APPLES. — Baldwin, J. T. Foster	3 00
Second, Samuel Hartwell	2 00
Third, Christopher C. Shaw	1 00
Danvers Sweet, Jacob Bodge	3 00
Second, Otis Brown	2 00
Third, Asa Clement	1 00
Fletcher Russet, John Fletcher	3 00
Hubbardston, Samuel Hartwell	3 00
Second, Walter Russell	2 00
Third, J. T. Foster	1 00
Hunt Russet, Samuel Hartwell	3 00
Second, Asa Clement	2 00
Third, Starkes Whiton	1 00
Lady's Sweet, Asa Clement	3 00
Second, Oliver B. Wyman	2 00
Third, Warren Fenno	1 00
Northern Spy, William S. Janvrin	3 00
Second, Samuel Hartwell	2 00
Third, Warren Fenno	1 00
Rhode Island Greening, Charles E. Grant	3 00
Second, George V. Fletcher	2 00
Third, Warren Fenno	1 00
Roxbury Russet, E. R. Cook	3 00
Second, S. M. Vose	2 00
Third, Mrs. B. N. Moon	1 00
Tolman Sweet, J. T. Foster	3 00
Second, Willard P. Plimpton	2 00
Third, Asa Clement	1 00
Tompkins King, John Parker	3 00
Second, William Winn	2 00
Third, Samuel Hartwell	1 00

Any other variety, Samuel Hartwell, Weston	$3 00
Second, O. B. Hadwen, Palmer	2 00
Third, Warren Fenno, Rome Beauty	1 00
PEARS. — Angouleme, John L. Bird	4 00
Second, William S. Janvrin	3 00
Third, L. A. Milman	2 00
Fourth, John McClure	1 00
Anjou, L. A. Milman	4 00
Second, William S. Janvrin	3 00
Third, Andrew McDermott	2 00
Fourth, William P. Walker	1 00
Clairgeau, William T. Hall	3 00
Second, William S. Janvrin	2 00
Third, Samuel G. Damon	1 00
Comice, J. J. Merrill	4 00
Second, Warren Fenno	3 00
Third, William P. Walker	2 00
Fourth, Leverett M. Chase	1 00
Dana's Hovey, Edwin A. Hall	4 00
Second, Charles E. Swain	3 00
Third, Marshall W. Chadbourne	2 00
Fourth, George Frost	1 00
Diel, E. L. Draper	3 00
Second, William P. Walker	2 00
Third, Thomas M. Davis	1 00
Glout Morceau, A. H. Lewis	3 00
Second, Charles A. Smith	2 00
Third, Edwin A. Hall	1 00
Josephine of Malines, John L. Bird	3 00
Second, Warren Fenno	2 00
Third, Samuel G. Damon	1 00
Langelier, Charles A. Smith	3 00
Second, Aaron S. McIntosh	2 00
Third, Thomas M. Davis	1 00
Lawrence, Charles E. Swain	3 00
Second, Leverett M. Chase	2 00
Third, Rufus T. Tobey	1 00
Vicar, Aaron S. McIntosh	3 00
Second, Frank W. Mendum	2 00
Third, William P. Walker	1 00
Winter Nelis, Thomas M. Davis	3 00
Second, Andrew McDermott	2 00
Third, Edwin A. Hall	1 00
Any other variety, S. F. & F. L. Weston, Columbia	3 00
Second, Nathan D. Harrington, Seckel	2 00
Third, J. J. Merrill, Bosc	1 00
FOREIGN GRAPES. — George A. Nickerson, Alicante	5 00

Second, George A. Nickerson, Gros Maroc	$4 00
Third, George A. Nickerson, Black Hamburg	3 00

Gratuities:

Charles E. Grant, Collection of Apples	1 00
Warren Fenno, " " "	1 00
Marshall W. Chadbourne, Collection of Pears	2 00
Charles N. Brackett, " " "	1 00

SOCIETY'S SILVER MEDALS.

Annual Exhibition, September 15–17. Ellwanger & Barry, Rochester, N.Y., Collection of Pears.

" " " " Elijah Low, Bangor, Maine, Collection of Plums.

" " " " Jackson Dawson, Arnold Arboretum, Collection of Wild Fruits.

October 10. Benjamin G. Smith, Thirty-five varieties of Native Grapes.

FIRST CLASS CERTIFICATES OF MERIT.

June 20. Campbell & Gowing, Seedling Strawberry, Leader.

July 18. Amos Bates, Seedling Gooseberry.

REPORT

OF THE

COMMITTEE ON VEGETABLES,

FOR THE YEAR 1891.

By CHARLES N. BRACKETT, Chairman.

So gradually and almost imperceptibly do the weeks go by that it seems but a dream when we reflect that another of our exhibition seasons has passed and gone. Stern December closes up the train of the months, and with it ends the rolling year.

The close of the year affords a suitable occasion for reflection and review. The intelligent cultivator of the soil, as he surveys his crops, and examines the record of his doings the past season, learns many useful lessons. He sees the results of his experiments, and gathers a fresh acquisition of knowledge to aid him in his future operations. He not only learns from his own experience, but he also reads what others are doing in various parts of the world, beyond the reach of his personal examination.

In this way the judicious horticulturist embraces every opportunity and treasures up wisdom from every available source; growing wiser day by day, and every year adding largely to his fund of knowledge, as is clearly manifested by his superior success. Few in this age of improvement are willing to plod along in the old beaten track of their fathers, for the spirit of progress is sown broadcast over the land, and scattered into every nook and corner, by numerous books and periodicals; and every one partakes in some measure of what is passing around him.

It is unnecessary here, perhaps, to state the fact that this department is making steady, if not rapid progress. We need not here

refer you to the many fine exhibits made from week to week, so creditable indeed to all those contributors who grew them and placed them on exhibition. With some degree of satisfaction we may also glance at what has been accomplished in the past, and feel encouraged to renew the work that seems to lie before us. In this age of progress, new fields of work are being brought to light, and there is constant need of putting forth our every effort to reach the highest measure of usefulness.

It cannot be denied with any show of reason that the exhibitions and discussions of this Society and kindred associations have exerted an influence upon the community which has been far reaching in its results. These exhibitions, while they have excited and encouraged, have also afforded the means of comparison, so that there has been a constant endeavor to imitate, or perhaps to transcend, the best results of the most successful.

The past year has, in many respects, been a remarkable one. June and July were unusually cold months, while August and September were remarkably warm. It has been one of the longest seasons on record in this vicinity, between frost and frost, winding up about the middle of October with a snow-storm, before tender vegetation had been injured by frost, and furnishing us on the morning following the storm with a novel and beautiful sight, rarely seen, of the blossoms in the flower-beds peeping through a mantle of snow, and the trees, still heavy with foliage, incased with the same snowy covering.

This unusually long period of freedom from killing frosts was not only very favorable for harvesting crops, but was also of material benefit to the horticulturist in other respects, enabling him by the increased length of the season more fully to complete his fall work.

The crops, with few exceptions, have been good, and an abundant harvest has crowned the labors of the skilful husbandman.

The exhibitions throughout the season have been excellent. Owing to a favorable season, and an abundance of fine vegetables, the number of exhibitors seems to have increased, and competition for the prizes has been larger than usual, a number of contributors having entered the lists who had not previously taken part in our exhibitions.

The display of forced vegetables was much superior to that of the preceding year, which showed a large falling off; we could

account for this only on the ground that the first exhibition occurred before the Schedule of Prizes was published, and consequently might have been overlooked or forgotten by contributors.

At the May Exhibition, on the 9th of the month, and again on June 6, Edmund Hersey took the lead in Asparagus, receiving the first prize on both occasions.

May 30 Hon. Joseph S. Fay placed on exhibition specimens of Cauliflowers, which for size, beauty of appearance, and quality, in the opinion of your Committee, surpassed anything of the kind ever before seen here at this season of the year. Mr. Fay was awarded the Society's Silver Medal for superior cultivation of the same.

We are also indebted to Mr. Fay for large and excellent exhibits, from time to time at the weekly shows, and also at the Annual Exhibition. The vegetable productions from his grounds are always well grown and superior in quality, reflecting great credit on his intelligent gardener, M. H. Walsh. His specimen potatoes, shown on different occasions, formed a centre of attraction, and furnished valuable object lessons for the throng of visitors who saw and admired them.

The Annual Exhibition occurred September 15, 16, and 17, and included the usual great variety of vegetables, many of which could not well be excelled. The show of Potatoes, in particular, was unusually full and fine. The Hebron was prominent in nearly every collection, showing conclusively that it is more widely grown than other varieties, and most certain of producing a profitable crop. The prizes for the best four varieties were awarded to Mrs. Mary T. Goddard, F. J. Kinney, and Hon. Joseph S. Fay, in the order named.

The show of Celery was the largest in quantity and the best in quality ever made in the Hall. Isaac E. Coburn's stand of White Plume has never been surpassed. The display of Paris Golden by Charles A. Learned was also very fine, and called forth many warm words of praise from the visiting public. For the past two or three years the old Boston Market celery appears almost entirely to have dropped out of our shows, there being only one entry at this exhibition, which made a rather poor showing in comparison with the newer varieties.

Special Prize No. 515 was awarded, first, to Isaac E. Coburn, for White Plume, and second, to Charles A. Learned, for Paris Golden.

Cauliflowers were shown in great perfection by A. M. Knowlton and William H. Teel. Special Prize No. 516 was secured by Mr. Knowlton, first, and Mr. Teel, second.

The Tomato, as usual, occupied a prominent place at our exhibitions, both weekly and annual. Owing to the length of the season, early started plants ripened all the fruit set, before being overtaken by frost. The crop was unusually large and fine. With the exception of the Potato, the Tomato has now become one of the most important and most extensively grown of garden and field crops, and, like the former, can be had on the table, either fresh or canned, every day in the year. The introduction of the canning industry, and the growing demand for winter fruit, has enormously increased its commercial importance, and extended its cultivation.

The first exhibition of Tomatoes of open culture the past season was made July 25, Varnum Frost taking the first prize with Emery. At the Annual Exhibition upwards of sixty dishes were shown, including all the leading varieties. This large exhibit, taken as a whole, has rarely if ever been excelled. We need hardly remark that competition for the prizes was unusually spirited and close. The display of fifty named varieties of Tomatoes and fifty named varieties of Beans, made by R. and J. Farquhar, formed an interesting feature at the Annual Exhibition, and attracted considerable attention. No new varieties have been shown worthy of special mention.

If our exhibitions furnish a criterion, the Melon crop in this vicinity has not been a success. At the show on the 8th of August no competitors appeared in either of the classes, and only one at the following shows. Cool days and nights, with too frequent rains during the month of July, were antagonistic to the growth and maturing of this crop. Of the twenty-one prizes offered in the various classes of melons only two were awarded.

At the show on the 3d of October, and also at the closing exhibition on the 14th of November, the tables were well filled. That on October 3 was one of the largest and best of the season. All the prizes were competed for, and nearly all were awarded.

The amount appropriated for Vegetables was $1,000. The annexed list of awards shows that your Committee have awarded in Prizes and Gratuities $947, leaving an unexpended balance of $53.

Gracefully and gently has waned the dying year, and brought us to the close of those months through which we have travelled so peacefully and profitably together. We trust that the recollection of them will be pleasant to all, and will inspire us to future usefulness in the new duties which will gather around us on the incoming of the new year.

All of which is respectfully submitted.

For the Committee,

C. N. Brackett,
Chairman.

PRIZES AND GRATUITIES AWARDED FOR VEGETABLES.

JANUARY 3.

RADISHES. — Four bunches of any variety, George F. Stone	$3 00
CUCUMBERS. — Pair of any variety, John L. Gardner	3 00
CAULIFLOWERS. — Four specimens, Nathaniel T. Kidder	3 00
LETTUCE. — Four heads, John L. Gardner	3 00
Second, Charles A. Learned	2 00
Third, George F. Stone	1 00
PARSLEY. — Two quarts, George F. Stone	3 00
Second, F. J. Kinney	2 00
Third, John L. Gardner	1 00
MUSHROOMS. — Twenty-four specimens, Oak Grove Farm	3 00
Second, Charles C. Halbrow	2 00
TOMATOES. — Twelve specimens, Oak Grove Farm	3 00
Second, Winter Brothers	2 00

JANUARY 10.

Gratuity:

Walter Russell, Collection	2 00

FEBRUARY 7.

RADISHES. — Four bunches, George F. Stone	3 00
Second, Varnum Frost	2 00
LETTUCE. — Four heads Tennisball, George F. Stone	3 00
Second, Varnum Frost	2 00
Third, Walter Russell	1 00
MUSHROOMS. — Twenty-four specimens, John B. Moore & Son	3 00
RHUBARB. — Twelve stalks, George E. Sanderson	3 00
Second, William Patterson	2 00
TOMATOES. — Twelve specimens, Oak Grove Farm	3 00
Second, Winter Brothers	2 00

Gratuities:

Nathaniel T. Kidder, Cauliflowers and Celery	2 00
Walter Russell, Celery and Parsley	2 00
Warren Heustis & Son, Celery	1 00
Edward J. Coolidge, Collection	3 00

FEBRUARY 24.

Gratuity:

Charles A. Learned, Lettuce	$1 00

MARCH 7.

Gratuity:

Winter Brothers, Tomatoes	1 00

MARCH 14.

Gratuities:

Warren Heustis & Son, Dandelions	1 00
George M. Anderson, Mushrooms	1 00

SPRING EXHIBITION.

MARCH 31 AND APRIL 1, 2, AND 3.

RADISHES. — Four bunches Turnip Rooted, Warren Heustis & Son,	3 00
Second, George F. Stone	2 00
Third, S. P. Buxton	1 00
CELERY. — Four roots, Warren Heustis & Son	3 00
Second, Nathaniel T. Kidder	2 00
Third, Charles E. Grant	1 00
DANDELIONS. — Peck, Warren Heustis & Son	3 00
LETTUCE. — Four heads, Charles A. Learned	3 00
Second, Nathaniel T. Kidder	2 00
Third, John L. Gardner	1 00
WATER CRESSES. — Two quarts, John Conlon	2 00
PARSLEY. — Two quarts, George F. Stone	2 00
Second, John L. Gardner	1 00
RHUBARB. — Twelve stalks, George E. Sanderson	3 00
TOMATOES. — Twelve specimens, Winter Brothers, Lorillard	3 00
Second, Winter Brothers, Essex	2 00

Gratuities:

John L. Gardner, Cucumbers, Veitch's Perfection	2 00
Nathaniel T. Kidder, " " "	2 00
S. P. Buxton, Red Cabbages	1 00
George M. Anderson, Mushrooms	2 00
Warren Heustis & Son, Collection	2 00

APRIL 4.

CUCUMBERS. — Pair, S. P. Buxton	3 00
MUSHROOMS. — Twenty-four, Charles C. Holbrow	3 00

Gratuities:

S. P. Buxton, Cabbages	1 00
M. Ernest Moore, Lettuce	1 00

Samuel Hartwell, Asparagus	$1 00
Leonard W. Weston, "	1 00

MAY 2.

Gratuities:

William Christie, Lettuce	1 00
Charles E. Grant, Asparagus	1 00

MAY EXHIBITION.

MAY 9.

William J. Walker Fund.

ASPARAGUS. — Four bunches, Edmund Hersey	3 00
Second, Joseph S. Fay	2 00
Third, A. Galbraith	1 00
CUCUMBERS. — Pair, Varnum Frost	3 00
Second, S. P. Buxton	2 00
SPINACH. — Peck, Warren Heustis & Son, Pointed Leaf	3 00
Second, Warren Heustis & Son, Long Standing	2 00
DANDELIONS. — Peck, Warren Heustis & Son	2 00
Second, Varnum Frost	1 00
LETTUCE. — Four heads, William Christie	3 00
Second, George F. Stone	2 00
Third, Warren Heustis & Son	1 00
RHUBARB. — Twelve stalks, Cephas H. Brackett	3 00
Second, A. Galbraith	2 00
Third, Marshall W. Chadbourne	1 00

Gratuities:

Winter Brothers, Tomatoes	1 00
Nathaniel T. Kidder, Cucumbers	1 00
S. P. Buxton, Collection	2 00

MAY 30.

Gratuities:

Joseph S. Fay, Asparagus	1 00

RHODODENDRON SHOW.

JUNE 6.

Theodore Lyman Fund.

BEETS. — Twelve specimens, the Second Prize to S. P. Buxton, Deering	2 00
Third, S. P. Buxton, Edmands	1 00
CARROTS. — Twelve Short Scarlet, Warren Heustis & Son	3 00
Second, " " "	2 00

RADISHES. — Four bunches Turnip Rooted, the second prize to Marshall W. Chadbourne	$2 00
ASPARAGUS. — Four bunches, Edmund Hersey	3 00
Second, Charles E. Grant	2 00
Third, Leonard W. Weston	1 00
CUCUMBERS. — Pair, Varnum Frost	3 00
Second, Winter Brothers	2 00
LETTUCE. — Four heads, Joseph S. Fay	3 00
Second, Warren Heustis & Son	2 00
Third, John L. Gardner	1 00
RHUBARB. — Twelve stalks, Cephas H. Brackett	3 00
Second, Benjamin G. Smith	2 00
Third, James Comley	1 00

Gratuities:

Joseph S. Fay, Asparagus	1 00
" " Cabbages	1 00
" " Cauliflowers	2 00
George M. Anderson, Mushrooms	1 00
Winter Brothers, Tomatoes	1 00
James Comley, Collection of Seedling Rhubarb	3 00
Warren Heustis & Son, Onions	1 00

JUNE 13.

Gratuity:

Charles E. Grant, Alaska Peas	1 00

JUNE 20.

Gratuities:

Charles N. Brackett, Excelsior Peas	1 00
S. P. Buxton, Collection	2 00

ROSE AND STRAWBERRY SHOW.

JUNE 23 AND 24.

BEETS. — Twelve Summer Turnip Rooted, Varnum Frost	3 00
Second, F. J. Kinney	2 00
Third, Warren Heustis & Son	1 00
ONIONS. — Twelve specimens, Charles A. Learned	3 00
Second, Warren Heustis & Son	2 00
Third, Joseph S. Fay	1 00
CUCUMBERS. — Pair of White Spine, Varnum Frost	3 00
Second, Walter Russell	2 00
Third, Warren Heustis & Son	1 00
CABBAGES. — Three of any variety, Joseph S. Fay, Wyman	3 00
Second, Joseph S. Fay, Wakefield	2 00
Third, Varnum Frost, Henderson	1 00

LETTUCE. — Four heads of any variety, Joseph S. Fay, Deacon	$3 00
Second, Joseph S. Fay, Tennisball	2 00
Third, Warren Heustis & Son	1 00
PEAS. — Half-peck of any variety, Samuel Hartwell, American Wonder	3 00
Second, Charles N. Brackett	2 00
Third, Charles E. Grant	1 00

Gratuities:

Winter Brothers, Tomatoes	1 00
Joseph S. Fay, Hebron Potatoes	1 00
John W. Stobbart, Potatoes and two varieties of Peas	2 00
Charles A. Learned, Collection	3 00
Warren Heustis & Son, "	2 00

JUNE 27.

Gratuities:

Charles N. Brackett, American Wonder Peas	1 00
S. P. Buxton, Collection	2 00

JULY 11.

POTATOES. — Twelve specimens, Joseph S. Fay, Hebron	3 00
Second, Joseph S. Fay, Downing	2 00
Third, Joseph S. Fay, Savoy	1 00
ONIONS. — Twelve specimens, Warren Heustis & Son	2 00
Second, Joseph S. Fay	1 00
SQUASHES. — Four Long Warted, Warren Heustis & Son	2 00
CABBAGES. — Three of any variety, trimmed, Joseph S. Fay, Wyman	3 00
Second, Joseph S. Fay, Reynolds	2 00
BEANS. — Half-peck of String, of any variety, Isaac E. Coburn, Wax	3 00
Second, Charles N. Brackett, Wax	2 00
Third, Joseph S. Fay, Mohawk	1 00
PEAS. — Half-peck of American Wonder, S. P. Buxton	3 00
Half-peck of any other variety, Charles N. Brackett, Stratagem	3 00
Second, Calvin Terry, Stratagem	2 00
Third, Joseph S. Fay, Advancer	1 00

Gratuities:

Nathaniel T. Kidder, Lettuce	1 00
Charles A. Learned, "	1 00
H. R. Kinney, Turnips	1 00
Charles B. Lancaster, Potatoes, Bliss' Triumph	1 00
John W. Stobbart, Collection	1 00

JULY 18.

Levi Whitcomb Prizes.

CABBAGES.— Three Drumhead, trimmed, Joseph S. Fay, All Seasons,	$3 00
Second, Joseph S. Fay, Reynolds	2 00
BEANS. — Half-peck of Cranberry, the second prize to Charles E. Grant	2 00
Third, Isaac E. Coburn	1 00
PEAS. — Half-peck of any variety, H. R. Kinney, Stratagem . .	3 00
Second, Charles N. Brackett, Telephone	2 00
Third, R. McLeod, Newport, R.I., Duke of Albany . . .	1 00
SWEET CORN. — Twelve ears, the Third prize to Charles E. Grant .	1 00

Gratuity:

Isaac E. Coburn, Peas and Beans	1 00

JULY 25.

POTATOES. — Twelve specimens, Joseph S. Fay, Hebron . . .	3 00
Second, Joseph S. Fay, Downing	2 00
Third, F. J. Kinney, New Queen	1 00
SWEET CORN. — Twelve ears, Edward J. Coolidge	3 00
Second, Joseph S. Fay	2 00
TOMATOES. — Open culture, twelve specimens, Varnum Frost .	3 00
Second, Nathaniel T. Kidder	2 00
Third, Edward J. Coolidge	1 00

Gratuities:

Nathaniel T. Kidder, Peas	1 00
Calvin Terry, Peas	1 00
Isaac E. Coburn, Peas and Beans	1 00
Charles N. Brackett, Collection	2 00

AUGUST 1.

POTATOES. — Any variety, twelve specimens, Joseph S. Fay, Hebron	3 00
Second, Joseph S. Fay, Downing	2 00
Third, S. P. Buxton, Queen	1 00
SQUASHES. — Three Marrow, Varnum Frost	3 00
Second, Augustus Harrington	2 00
Third, Edward J. Coolidge	1 00
PEAS. — Half-peck of any variety, Sidney Lawrence, Stratagem .	3 00
Second, Charles E. Grant, Evolution	2 00
Third, Charles N. Brackett, Telephone	1 00
SWEET CORN. — Twelve ears, Joseph S. Fay, Crosby	3 00
Second, Joseph S. Fay, Corey	2 00
Third, Edward J. Coolidge	1 00
TOMATOES. — Twelve specimens, Varnum Frost, Acme . . .	3 00
Second, Charles N. Brackett, Acme	2 00
Third, Charles N. Brackett, Ignotum	1 00

Gratuities:

Hon. Joseph S. Fay, Lettuce	$1 00
Nathaniel T. Kidder, Cabbages and Cauliflowers	1 00
Charles E. Grant, Beans and Corn	1 00
H. R. Kinney, Peas	1 00
Edward J. Coolidge, Collection	2 00
John Conlon, "	1 00
George F. Stone, "	1 00

AUGUST 8.

BEANS. — Half-peck of Horticultural, Isaac E. Coburn	3 00
Second, Edward J. Coolidge	2 00
Third, F. J. Kinney	1 00
TOMATOES. — Twelve specimens of Acme, Charles N. Brackett	3 00
Twelve specimens of Emery, Charles N. Brackett	3 00
Second, Varnum Frost	2 00
Twelve specimens of any other variety, C. N. Brackett, Ignotum,	3 00
EGG PLANT. — Four specimens of Round Purple, Edward J. Coolidge	3 00

Gratuities:

Benjamin P. Ware, Cauliflowers	1 00
Charles E. Grant, Peas	1 00
Jackson Dawson, Telegraph Cucumbers	1 00
Charles N. Brackett, Collection	2 00

AUGUST 15.

GREENFLESH MELONS. — Four specimens, Varnum Frost	3 00
SWEET CORN. — Twelve ears, Charles N. Brackett, Bourn's Favorite	3 00
Second, Charles N. Brackett, Crosby	2 00
Third, Charles E. Grant, "	1 00
EGG PLANT. — Four specimens of Round Purple, Edward J. Coolidge	2 00

Gratuities:

Charles N. Brackett, Tomatoes, three varieties	2 00
Marshall W. Chadbourne, Tomatoes	1 00
Calvin Terry, Collection	1 00

AUGUST 22.

POTATOES. — Twelve specimens of any variety, Joseph S. Fay, Hebron	3 00
Second, Samuel Hartwell, Hebron	2 00
Third, Joseph S. Fay, Downing	1 00

ONIONS. — Twelve specimens, Joseph S. Fay, Wethersfield	$3 00
Second, Joseph S. Fay, Danvers	2 00
Third, Varnum Frost, Danvers	1 00
GREENFLESH MELONS. — Four specimens, Varnum Frost	3 00
BEANS. — Two quarts of Large Lima, Charles E. Grant	3 00
Two quarts of Dwarf Lima, Charles E. Grant	3 00
Two quarts of Goddard, shelled, Isaac E. Coburn	3 00
Second, Charles N. Brackett	2 00
SWEET CORN. — Twelve ears of Potter's Excelsior, Charles N. Brackett	3 00
Second, Joseph S. Fay	2 00
Third, Charles E. Grant	1 00
Twelve ears of any other variety, Charles N. Brackett, Bourn's Favorite	3 00
Second, Joseph S. Fay, Old Colony	2 00
Third, Joseph S. Fay, Crosby	1 00
PEPPERS. — Twelve specimens of Squash, Joseph S. Fay	3 00
Second, Calvin Terry	2 00
Twelve specimens of any other variety, Joseph S. Fay, Bull-nose	3 00
Second, Joseph S. Fay, Ruby King	2 00
Third, Charles N. Brackett, Bull-nose	1 00

Gratuities:

H. T. Reynolds, Celery	2 00
Isaac E. Coburn, Corn and Tomatoes	1 00
Cephas H. Brackett, Potatoes	1 00
Charles N. Brackett, Collection	3 00
Charles E. Grant, "	1 00

AUGUST 29.

CABBAGES. — Three of any variety, trimmed, Charles B. Lancaster,	3 00
Second, Charles N. Brackett	2 00
CAULIFLOWERS. — Four specimens, A. M. Knowlton	3 00
CELERY. — Four roots, Isaac E. Coburn, White Plume	3 00
Second, H. T. Reynolds, Golden	2 00
Third, H. T. Reynolds, Seedling	1 00
BEANS. — Two quarts of Large Lima, Varnum Frost	3 00
Second, Charles E. Grant	2 00
Third, H. A. Stevens	1 00
PEPPERS. — Twelve specimens of Squash, Charles N. Brackett	3 00
Second, Joseph S. Fay	2 00
Third, George W. Jameson	1 00
Any other variety, Joseph S. Fay, Ruby King	3 00
Second, Charles N. Brackett, Bull-nose	2 00
Third, Joseph S. Fay, Bull-nose	1 00

Gratuities:

Calvin Terry, Corn and Peppers	$1 00
Marshall W. Chadbourne, Golden Queen Tomatoes	1 00
Isaac E. Coburn, Melons	2 00
Charles N. Brackett, Collection	3 00
Mrs. E. M. Gill, "	1 00
Charles E. Grant, "	1 00

ANNUAL EXHIBITION.

SEPTEMBER 15, 16, AND 17.

Special Prizes.

POTATOES. — Best Collection of New Seedling Varieties, the second prize to James J. H. Gregory, the Society's Bronze Medal.

CAULIFLOWERS. — Best four specimens, and best kept during the exhibition, A. M. Knowlton	5 00
Second, William H. Teel	4 00
CELERY. —Best four specimens, and best kept during the exhibition, Isaac E. Coburn, White Plume	8 00
Second, Charles A. Learned, Golden	6 00

Regular Prizes.

BEETS. — Twelve Turnip Rooted, Varnum Frost	3 00
Second, H. R. Kinney	2 00
Third, Warren Heustis & Son	1 00
CARROTS. — Twelve Long Orange, H. R. Kinney	3 00
Second, Joseph S. Fay	2 00
Twelve Intermediate, H. R. Kinney	3 00
Second, Mrs. Mary T. Goddard	2 00
Third, S. P. Buxton	1 00
PARSNIPS. — Twelve Long, F. J. Kinney	3 00
Second, Nathaniel T. Kidder	2 00
Third, John Conlon	1 00
POTATOES. — Four varieties, twelve specimens each, Mrs. Mary T. Goddard	5 00
Second, F. J. Kinney	4 00
Third, Joseph S. Fay	3 00
Clark, twelve specimens, H. R. Kinney	3 00
Second, Charles N. Brackett	2 00
Third, F. J. Kinney	1 00
Hebron, Isaac E. Coburn	3 00
Second, Charles S. Smith	2 00
Third, F. J. Kinney	1 00
Rose, Isaac E. Coburn	3 00
Second, Joseph S. Fay	2 00
Third, John L. Gardner	1 00

Savoy, F. J. Kinney	$3 00
Second, Charles B. Lancaster	2 00
Third, H. R. Kinney	1 00
Any other variety, Mrs. Mary T. Goddard, Downing	3 00
Second, H. R. Kinney, Brooks Seedling	2 00
Third, F. J. Kinney, Burbank	1 00
SALSIFY. — Twelve specimens, Warren Heustis & Son	3 00
Second, John L. Gardner	2 00
Third, Walter Russell	1 00
TURNIPS. — Twelve Flat, F. J. Kinney	2 00
Second, S. P. Buxton	1 00
Swedish, Reuben Handley	2 00
ONIONS. — Twelve Danvers, Joseph S. Fay	3 00
Second, John Conlon	2 00
Third, George F. Stone	1 00
Portugal, Joseph S. Fay	3 00
Second, D. B. Fearing, Newport, R.I.	2 00
Third, George S. Harwood	1 00
Red, Joseph S. Fay	3 00
Second, John L. Gardner	2 00
Third, Calvin Terry	1 00
GREENFLESH MELONS. — Four specimens, Samuel Hartwell	3 00
Second, Charles N. Brackett	2 00
Third, Charles E. Grant	1 00
WATERMELONS. — Two specimens, Charles E. Grant	3 00
Second, Calvin Terry	2 00
SQUASHES. — Three Hubbard, James J. H. Gregory	3 00
Second, John Conlon	2 00
Third, S. P. Buxton	1 00
Hybrid Turban, S. P. Buxton	3 00
Second, John Conlon	2 00
Third, Mrs. Mary T. Goddard	1 00
Marblehead, Mrs. Rose Buxton	3 00
Second, Charles N. Brackett	2 00
Marrow, Varnum Frost	3 00
Second, Mrs. Mary T. Goddard	2 00
Third, Walter Russell	1 00
Turban, James J. H. Gregory	3 00
Second, Charles B. Lancaster	2 00
CABBAGES. — Three Drumhead, Charles N. Brackett	3 00
Second, Charles B. Lancaster	2 00
Third, S. P. Buxton	1 00
Red, Mrs. Mary T. Goddard	3 00
Second, S. P. Buxton	2 00
Savoy, S. P. Buxton	3 00
Second, Charles B. Lancaster	2 00
Third, Charles N. Brackett	1 00

CAULIFLOWERS. — Four, William H. Teel	$3 00
Second, A. M. Knowlton	2 00
CELERY. — Four roots of Boston Market, Charles A. Learned	5 00
Any other variety, Isaac E. Coburn, White Plume	5 00
Second, H. R. Kinney, Golden	4 00
Third, Artemas Frost, Golden	3 00
ENDIVE. — Four specimens, H. R. Kinney	3 00
Second, F. J. Kinney	2 00
HORSERADISH. — Six roots, H. R. Kinney	3 00
Second, Charles A. Learned	2 00
BEANS. — Large Lima, two quarts, Varnum Frost	3 00
Second, Benjamin G. Smith	2 00
Third, Charles E. Grant	1 00
CORN. — Sweet, Twelve ears of Potter's Excelsior, Charles N. Brackett	3 00
Second, Isaac E. Coburn	2 00
Third, Charles E. Grant	1 00
Any other sweet variety, P. G. Hanson, Stowell's	3 00
Second, Joseph S. Fay, Marblehead Mammoth	2 00
Third, Charles N. Brackett, Ruby	1 00
Yellow or Field, Twenty-five ears, Mrs. Mary T. Goddard	3 00
EGG PLANT. — Four Round Purple, Joseph S. Fay	3 00
Second, Nathaniel T. Kidder	2 00
TOMATOES. — Three varieties, twelve specimens each, Charles N. Brackett	5 00
Second, Aaron Low	4 00
Third, Varnum Frost	3 00
Acme, Twelve specimens, Charles N. Brackett	3 00
Second, Aaron Low	2 00
Third, Charles E. Grant	1 00
Emery, Varnum Frost	3 00
Second, Charles N. Brackett	2 00
Paragon, Charles N. Brackett	3 00
Second, Aaron Low	2 00
Third, Varnum Frost	1 00
Cardinal, Varnum Frost	3 00
Second, Charles N. Brackett	2 00
Third, Aaron Low	1 00
Any other variety, Charles N. Brackett, Beauty	3 00
Second, Aaron Low, Peerless	2 00
Third, Charles N. Brackett, Ignotum	1 00
PEPPERS. — Twelve Squash, Charles N. Brackett	3 00
Second, George W. Jameson	2 00
Third, Nathaniel T. Kidder	1 00
Any other variety, Joseph S. Fay, Ruby King	3 00
Second, Joseph S. Fay, Bull-nose	2 00
Third, S. P. Buxton, Bull-nose	1 00

Gratuities:

Charles A. Learned, Collection of Celery	$5 00
R. & J. Farquhar, Collection of Beans and Tomatoes	5 00
S. A. Merrill, Mammoth Squashes	2 00
F. E. Ballard, Fordhook "	1 00
P. G. Hanson, Bay State "	1 00
Charles N. Brackett, Pride of the Amazon Squashes	1 00
Mrs. W. E. Bright, Squashes	1 00
Charles B. Lancaster, "	1 00
E. R. Cook, Egg Gourds	1 00
Nathaniel T. Kidder, Collection	10 00
James J. H. Gregory, "	8 00
Charles A. Learned, "	6 00

OCTOBER 3.

Theodore Lyman Fund.

SALSIFY. — Twelve specimens, Warren Heustis & Son	3 00
Second, George W. Jameson	2 00
SQUASHES. — Three Hubbard, Samuel Hartwell	3 00
Second, S. P. Buxton	2 00
Third, Charles A. Learned	1 00
Marrow, William Christie	3 00
Second, S. P. Buxton	2 00
Third, Samuel Hartwell	1 00
BRUSSELS SPROUTS. — Half-peck, Nathaniel T. Kidder	3 00
Second, William Christie	2 00
CABBAGES. — Three Drumhead, S. P. Buxton	3 00
Second, George S. Harwood	2 00
Third, William Christie	1 00
Red, George S. Harwood	3 00
Second, Samuel Hartwell	2 00
Third, S. P. Buxton	1 00
Savoy, Samuel Hartwell	3 00
Second, William Christie	2 00
Third, Charles B. Lancaster	1 00
CAULIFLOWERS. — Four specimens, William H. Teele	3 00
CELERY. — Four roots of Boston Market, Warren Heustis & Son	3 00
Any other variety, Isaac E. Coburn, Paris Golden	3 00
Second, " " " White Plume	2 00
Third, Charles A. Learned, Paris Golden	1 00

Gratuities:

V. C. Gilman, Collection of Melons	3 00
Calvin Terry, Watermelons	1 00
H. B. Hewett, Sweet Potatoes	1 00
Charles A. Learned, Collection	5 00
George W. Jameson, "	4 00

Charles N. Brackett, Collection	$3 00
Charles E. Grant, "	3 00
Rev. Calvin Terry, "	2 00

NOVEMBER 10.

Gratuities:

James Tulis, Cucumbers and Tomatoes	2 00
George M. Anderson, Mushrooms	1 00

EXHIBITION OF WINTER FRUITS AND VEGETABLES.

NOVEMBER 14.

CUCUMBERS. — Pair, James Tulis	3 00
CABBAGES. — Three Red, John Conlon	3 00
Second, S. P. Buxton	2 00
Three Savoy, Samuel Hartwell	3 00
Second, S. P. Buxton	2 00
Third, John Conlon	1 00
BRUSSELS SPROUTS. — Half peck, Nathaniel T. Kidder	3 00
CAULIFLOWERS. — Four specimens, A. M. Knowlton	3 00
CELERY. — Four roots, Warren Heustis & Son	3 00
LETTUCE. — Four heads, Nathaniel T. Kidder	3 00
Second, S. P. Buxton	2 00
TOMATOES. — Twelve specimens, Winter Brothers, Essex	3 00
Second, Winter Brothers, Hybrid	2 00
Third, James Tulis	1 00

Gratuities:

George M. Anderson, Mushrooms	1 00
Warren Heustis & Son, Salsify	1 00
Calvin Terry, Onions	1 00
Samuel Hartwell, Hubbard Squashes	1 00
Charles B. Lancaster, Savoy Cabbages	1 00

SOCIETY'S SILVER MEDAL.

May 30. To Hon. Joseph S. Fay, for superior cultivation of the Cauliflower.

SOCIETY'S BRONZE MEDAL.

September 15 and 17. Annual Exhibition, to James J. H. Gregory, for Collection of Seedling Potatoes.

REPORT

OF THE

COMMITTEE ON GARDENS,

FOR THE YEAR 1891.

By JOHN G. BARKER, Chairman.

The Committee feel much pleasure in presenting to the Society their report for the season of 1891, which they believe will be of more than usual interest. The various prizes have all been applied for, and visits have been made where no application for any prize has been received. Instead of writing up the observations and experience gained by these visits ourselves, we have brought to you, as far as possible, the written statements by the several applicants, of their modes of growth and cultivation, which will not only interest you, but will be of permanent practical value to the cultivators of the different classes of plants to which our attention has been called.

Greenhouse of Nathaniel T. Kidder, Milton.

For the best arranged and best kept Stove or Greenhouse during the month of March or April there were applications from several gentlemen, the successful one being Nathaniel T. Kidder. The plants were arranged in a good sized lean-to house.

The following well-grown specimens are worthy of particular mention:

Aphelexis macrantha purpurea, one of a genus of dwarf evergreen greenhouse shrubs, valuable on account of their bright colors, and the length of time they last in perfection.

Acacia pubescens, yellow; heads small, very fine and showy. The Acacias compose a large genus, all of which are very beautiful, and this is one of the very best.

Azalea Indica, in great variety.

Boronia megastigma, a very elegant and useful shrub. Its flowers are very pretty — pink, purplish, or white.

Camellias in variety.

Chorozema cordata. This beautiful shrub from New Holland should be in every collection of greenhouse plants; it is very valuable for decorative purposes, and a splendid exhibition plant.

Citrus Aurantium, the Sweet Orange, forms a large tree, and when laden with either flowers or fruits, is a splendid sight.

Coronilla glauca is a pretty greenhouse shrub; the flowers are produced in umbels, and are of a bright yellow color, very fragrant in the daytime.

Cyclamen Persicum and *C. grandiflorum*. This beautiful genus of greenhouse plants is too well known to require any description.

Cypripedium insigne is a well-known and useful greenhouse orchid. No collection should be without it.

Cytisus racemosus grandiflorus is largely grown for greenhouse decoration in spring; the flowers are bright yellow and very showy.

Daphne Indica rubra is a free-growing evergreen shrub; the flowers are deliciously fragrant.

Diosma ericoides is a useful shrub from the Cape of Good Hope, with fragrant foliage and abundant flowers.

Epacris paludosa is a handsome ornamental shrub, having harsh, dryish, prickly foliage, and beautiful flowers.

Erica hyemalis is a splendid spring flowering plant, with bell-shaped flowers, rosy pink at the base, and is invaluable on account of blooming in winter and spring.

E. caffra is sweet-scented; corolla globular, very small, but the flowers are produced in great profusion.

Eriostemon densiflorum and *E. neriifolium* are natives of New Holland, free-growing evergreen shrubs; and are valuable for exhibition purposes.

Eupatorium riparium has white flowers; it grows rapidly, and should be propagated each year.

Grevillea Priessi is an easily grown plant of graceful habit.

Habrothamnus elegans is an old favorite which thrives under almost any treatment. The flowers are tubular, of a deep reddish purple color, and are produced in dense racemes.

H. Newelli has bright crimson flowers, very ornamental.

Libonia floribunda is a very ornamental and free-flowering plant for greenhouse decoration. This particular variety has proved itself a very useful subject.

Mahernia odorata is a very useful greenhouse plant — or rather evergreen shrub — from the Cape of Good Hope, with yellow flowers.

Polygala cordata is a fine sweet-pea-like flowering plant.

Primula obconica is a species which is attracting much attention. It is almost constantly in bloom, the flowers being white, lilac, and pink, shaded.

Primula Sinensis, single and double.

Scilla cernua.

Stocks, East Lothian, in variety, were remarkably fine.

Sutherlandia spectabilis floribunda.

The plants named in this list include only the more prominent and marked specimens. There were many more worthy of note, had time and space permitted. Those mentioned are all valuable standard varieties, and it is hardly necessary to say that they were in the best possible state of cultivation. The many exhibits by Mr. Kidder have given you the most abundant evidence of the skill and care bestowed upon all his productions. It was also a great pleasure to notice in his houses so many old and well-known varieties of flowering plants which, in many collections, are so seldom seen. The Committee in awarding this prize feel that in every particular it is unusually satisfactory. It was with great pleasure that we received the invitation to visit this greenhouse, which was not only delightful to behold, but instructive; showing as it did what could be done in conservatory decoration at this dull season. We trust that we shall be able to award this prize to others as the seasons return.

Joseph H. White's, Brookline.

This visit was also one of much satisfaction; a tour through the different houses giving us the opportunity of inspecting the many plants there grown. For convenience we have numbered the houses, and the Palm House is designated as No. 1. Here we found elegant specimens of

Kentia Belmoreana, which is largely grown.

Phœnix farinifera, an elegant species from the East Indies.

Cycas circinalis. The finest species of the genus; a kind of sago

is said to be made from the stem of the plant, and it also yields a nutritive meal from the seeds. East Indies.

Areca Baueri is a species of great beauty in its young state; for a window or for a dinner-table decoration it cannot be excelled. A native of Norfolk Island, and found also under the name of *Kentia Baueri* and *Seaforthia robusta.*

Oreodoxas frequently attain a height of over one hundred feet.

O. regia, a native of Cuba, where it is known as the King of Palms, is a slender growing and graceful species.

Pritchardia pacifica is a superb plant for stove decoration; it is a native of the Pacific Islands.

Latania Borbonica is well known, and is, perhaps, on the whole the best palm for general decorative purposes either within or without doors. The leaves are large and fan-shaped. It is a native of the Isle of Bourbon.

Areca lutescens is very beautiful and handsome as a table decorative plant. Native of the Mascarene Islands.

Phœnix rupicola is said to be the most beautiful of the whole genus, and is quite rare.

Dr. Masters, in an exhaustive article on Palms, says: "From their noble aspect, and perhaps from the surpassing utility of several of the members of the group, the palms have been termed the princes of the vegetable kingdom; neither the anatomy of their stems nor the conformation of their flowers, however, entitles them to any such high position in the vegetable hierarchy. Their stems are not more complicated in structure than the Common Butchers' Broom (Ruscus); their flowers are for the most part as simple as those of a rush (Juncus). For all that, Palms have had great interest, not only for botanists, but also for the general public; in the latter case, by reason of the historical and legendary interest connected with them, no less than from their beauty and economic value. It is impossible to overestimate the utility of Palms. They furnish food, shelter, clothing, timber, fuel, building materials, sticks, fibre, paper, starch, sugar, oil, wax, wine, tannin, dyeing material, resin, and a host of minor products, which render them most valuable to the natives and to tropical agriculturists."

The Palm house is spacious, lofty, and well proportioned, and the splendidly grown specimens were shown to the best advantage. A good idea was gained of the beauty of the Palms, and ample proof that Dr. Masters had not overestimated their value.

In the same house, growing on the wall, are two remarkably fine plants of *Monstera deliciosa*, an Aroid with an eatable spadix, which is of a luscious pineapple flavor, with large leaves perforated in a singular manner. The Monsteras, of which there are about twelve species, are curious and ornamental stove evergreen climbers, all from the West Indies and tropical America. The large space these plants are allowed to occupy, and the appropriate cultivation given, account fully for their luxuriance, both of foliage and fruit. There were also some fine specimens of *Pandanus utilis*.

House No. 2, for stove plants, contained a good collection of plants requiring the temperature of such a house, which were in a luxuriant and healthy condition.

House No. 3 is used for flowering plants, of which there was a great variety in a very flourishing state, filling the house with a mass of bloom.

House No. 4 is the Rose house, planted in borders with the leading and most useful varieties.

Nos. 5 and 6 are early and late Grape houses.

No. 7 is the Peach house, and No. 8 the Cool Greenhouse.

No. 9 is a pit for miscellaneous plants. In the early grapery the bunches of fruit were just forming; here also, Hybrid Perpetual Roses were forced in boxes; they were in remarkably good condition and producing an abundance of fine bloom. Splendid specimens of Hollies and Yews, for summer decoration, were noticed.

Dr. C. G. Weld's, Brookline.

Our visit to Dr. Weld's was March 13. The Greenhouses are in two ranges; the lower range is divided by glass partitions into five separate houses, each one being thirty-seven feet long, twenty feet wide, and twelve feet high. The first house is devoted to stove plants and Orchids; the size of this house will not admit of any large plants, but those it contained were all well grown and in many respects much better than some we have seen of larger growth. The Crotons were particularly good, and there was a fair specimen of that rare and scarce plant *Pavetta Borbonica;* also, the bright *Euphorbia jacquiniæflora* (synonymous with *E. fulgens*), the lobes of the involucre being of a bright orange scarlet, growing in wreaths. A splendid plant of *Lœlia superbiens* with a flower spike five feet long was noticed.

The second house was devoted to Tea Roses grown on benches; the varieties were Catherine Mermet, The Bride, Papa Gontier, and Waban.

The third house was devoted to Carnations and Cyclamens, and the appended paper, by Mr. Finlayson, the gardener, on the cultivation of the Cyclamen, will be read by every cultivator with profit.

The fourth house was devoted to the Cineraria. As a cultivator of the Cineraria Mr. Finlayson has no superior. At the time of our visit the magnificence of the plants was something to enjoy but hard to describe, and especially to cause the reader to realize what the writer saw. There were many varieties; all were very showy, and formed a most brilliant mass of color; we think the self-colors were very superior, but all were excellent. The plants were of the most luxuriant growth and the beauty of the foliage was very marked.

The fifth house is a Cool Greenhouse, well stocked with a good collection of Azaleas, Acacias, Ericas, and many other choice hard-wooded plants.

This range was built by Lord & Burnham; and is thoroughly constructed, strong, and durable. The roof is of glass and iron, and the entire structure is well adapted to growing plants.

In the upper range the first house is used for the growth of Tea Roses, and the same varieties are grown here as in No. 2 of the lower range.

The second house is used for Hybrid Perpetual Roses, which are started the first of December, and are usually in flower by the middle of February. The varieties cultivated are General Jacqueminot, Duchesse de Vallombrosa, Magna Charta, and Mme. Gabriel Luizet.

The third house is also for Hybrid Perpetual Roses. They are started the first of January, and are generally in full flower about the middle of March. The varieties grown are Eugène Verdier, Mlle. Marie Finger, and Dupuy Jamain. In both houses they are grown on benches on the sides and in a prepared bed in the centre.

The fourth house is an octagon conservatory, filled with a miscellaneous collection of flowering plants; particularly noticeable among them was a splendid specimen of *Cypripedium insigne*, with sixty-four fine spikes of bloom; also about a dozen plants of

Phaius grandifolius. In Vol. 17 of "The Garden," p. 303, Mr. G. Syme, of Castleton Botanic Garden, Jamaica, says of the latter plant at home: "This is perhaps the most showy of our terrestrial orchids; and at elevations varying from four hundred to one thousand feet above the sea, plants of it were to be seen, dotted here and there on every grassy bank, particularly where the soil was either rich in decomposed vegetable matter, or of a loamy character; and last week I saw it in full flower on the mountains at elevations between two thousand and three thousand feet." He adds: "I counted as many as fifteen strong flower spikes issuing from one tuft of tubers, and one of them bore twenty florets."

Libonia Penrhosiensis is a very elegant plant, freely producing its fine showy flowers, which are of a bright rich crimson, changing into a fiery red. It is an exceedingly useful decorative plant.

Tydæas were in splendid varieties; they are very handsome winter and early spring flowering plants, and should receive the best attention on account of the manner in which they enliven the conservatory during the dreary winter months.

Solanum capsicastrum is a very important plant for decorative purposes, especially for dinner-tables and windows. This species fruits profusely, is of free growth, and very easy culture.

Much more might be added in regard to this place and the plants so well grown and cared for; but you have so often witnessed at the exhibitions the results of the skill of Mr. Finlayson as a cultivator, that nothing further is necessary to assure you that this visit was one of much interest and profit to all who were fortunate enough to join in it.

Mr. Finlayson gives his experience in the cultivation of Cyclamens as follows:

How I Grow Cyclamens.

I sow the seeds about the first of December in a compost of fibry loam and well decayed leaf-mould, in equal parts, adding thereto a liberal dash of sharp, clear sand, with a further quantity of finely crushed charcoal to keep the whole porous and sweet.

The top layer of soil in which the seeds are immediately sown is more sandy and more finely sifted than the rest of the earth. I use ordinary earthen seed-pans for this purpose, the size depending on the quantity of seed to be sown; an eight-inch pan is suffi-

ciently large to sow two packages of seeds such as we buy from seedsmen. Good drainage in the bottom of the pan must not be neglected. When the seeds are sown and watered well with a fine rose, I place the pans in sphagnum moss in a mild propagating-bed, of a temperature of 60°. I cover the pans with a pane of glass to check evaporation, and thereby avoid the necessity of frequent watering, which ought to be particularly guarded against.

In the temperature named above, they will germinate in from four to six weeks. After they have formed a leaf I take them into less warm quarters, and near the glass, but shaded from the bright sunlight for some time. When they have made two or three leaves I transplant them into boxes, using compost much the same as at first, but less sandy, keeping them all the while close to the glass at this period of their existence, in order to have a sturdy and stocky foundation to build on.

I put them out early in summer into cold frames, but still keeping them in boxes, guarding them against cold draughts and sudden changes in the weather, until they get sufficiently hardened to stand some little rough usage.

I syringe them morning and evening in hot, dry weather, and shade them only from the fierce noonday sun, using lath shades for the purpose; I take the sash off entirely at night when the weather is favorable.

About the first of June I pot them into three-inch pots, using at this potting a little well decayed cow manure, though sheep manure is preferable in this compost. They are returned to the frames again, and the pots are plunged up to their rims in coal-ashes. They must be carefully watered for weeks after this operation, and syringing overhead morning and evening must be steadily adhered to. With this treatment diligently persevered in, they will be ready for another shift into larger pots about the first of September or sooner. At this shift I use mainly a five-inch pot, this being the pot in which they flower. In a few exceptional cases there may be some plants that outgrow the others to such an extent that a six-inch pot may not be any too large.

The earth I use in the final potting consists of three-fifths fibry-loam; the other two-fifths consist of leaf-mould, cow manure or sheep manure, and sand, the leaf-mould predominating.

Particular care should be exercised when potting the cyclamen, that one-half at least of the bulb be left above the potting soil, for

it must be remembered that it is from the top surface of the bulb that the flowers proceed, and if this is placed under the earth the flower-buds will surely rot.

I keep them in their quarters in the frames until the middle of October, before I take them into the greenhouse. After they are brought into the greenhouse I give them as light and airy a position as possible. I keep them on the front bench of my Pink-house, in which place they do admirably well, the temperature at which this house is kept, namely from 50° to 55°, being, in my opinion, the ideal cyclamen temperature. Indeed 50° is quite high enough; if kept steadily at that point the plants will be more healthy, and give more and finer colored flowers.

They begin flowering sparingly eleven months from the date of sowing, but will not come into full flower until thirteen months from that time. I commence stimulating when they begin to form their flower-buds, or sooner should the pots be well crowded with roots, my never-failing stimulant being Peruvian guano, or its best imitation; also, soot and guano in equal parts, mixing them thoroughly before using. I take a small handful of any of the above fertilizers and dissolve in a six-gallon can full of water, giving a good watering with it once a week should the weather be clear, so that they demand much watering; otherwise, of course, less frequently.

Cyclamens thus treated will continue to flower until late spring, or early summer, when they will show signs of a want of rest; this rest must be brought about gradually, and should never be too severe; that is, never so severe that they will lose all their roots and foliage.

I turn my old plants out of the pots some time in June, shake all the soil from their roots, and then plant them in frames, giving them a thorough watering to settle the soil about them, afterwards putting a nice layer of short grass over all to keep the soil cool and moist.

I also shade the glass that I put over them with a heavy coat of paint, keeping the sashes at all times raised at both ends four or five inches off the frame to secure a current of air over them continually. All this done, there is no further attention necessary except a watering at long intervals, until they show some signs of activity, which will be about the beginning of August, when the grass covering should be removed, in order that the young

leaves which will now start may have a chance to develop themselves. The soil from this date is kept more moist.

In the third week of August I re-pot them and treat them like the younger plants, that is, plunging them in ashes and syringing overhead twice daily if the weather demands. Under such treatment I get flowers as good in every particular from my old plants as I do from the younger ones, and a great many more of them.

KENNETH FINLAYSON.

NATHANIEL T. KIDDER'S HERBACEOUS GARDEN.

For the best arranged and best kept Collection of named hardy Perennial and Biennial plants, the applicant was Nathaniel T. Kidder. The Committee made their visit on the 9th of July when the following choice varieties were noticed. We have appended to each one, as far as possible, a brief description, which we hope may induce the reader to search further to ascertain their real value, and why they are deservedly finding a place in so many of our gardens and public grounds.

Achillea Millefolium roseum. The flowers are rose-colored, and are produced continuously for several months.

Adlumia cirrhosa is a very interesting, delicate climber, and a pretty subject for trailing over a shrub, where it can be seen to the best advantage.

Agrostemma coronaria. All the varieties are pretty, free-flowering plants, and are recommended for dry hill-sides and the wild garden.

Ajuga Genevensis is a free-flowering species, bearing handsome spikes of blue flowers.

Armeria maritima purpurea, Thrift, or Sea Pink, is very interesting and pretty for groups of hardy alpine and tufted plants.

Aquilegia vulgaris Hybrids. The Columbine family consists of beautiful border flowers of great variety, ranging from one to three feet in height. Besides the common *vulgaris* with its numerous varieties, double and single, there are many other improved and choice varieties.

Betonica grandiflora.

Campanula Carpatica, *C. nobilis*, and *C. rupestris*, commonly called Bell flowers, are all very beautiful as well as varied in character and habit; in addition to the above there are many other fine species.

Centaurea calocephala is an excellent border plant; the flowers are produced in profusion.

Centranthus ruber and *C. alba* are showy, free-flowering plants, producing red and white flowers in showy spikes.

Cephalaria alpina. A tall growing plant; the flowers resemble those of the Scabious, to which it is allied, but are yellow.

Clematis indivisa is a charming species.

C. Viorna (Leather Flower) has thick-petalled, bell-shaped, purple and yellow flowers which are borne freely; a valuable climber.

Coreopsis palmata bears large, lemon-yellow flowers.

C. verticillata (Whorled Coreopsis) is of a rich golden-yellow color.

Crucianella stylosa is a low, tufted herb, with rose-colored flowers, blooming the greater part of the summer, and is a desirable plant for rockeries.

Cyclamen Europæum is bright red, and very fragrant.

Delphinium dasycantha.

D. nudicaule (Naked Stemmed Larkspur) has orange red sepals and yellow petals.

Dianthus Hispanicus.

Digitalis aurea (Golden Foxglove).

D. purpurea (Purple Foxglove). The species of Digitalis are very effective and showy in any border, and should be liberally grown.

Echinacea purpurea is a stout-growing, showy plant, blooming in late summer; the flowers are large, reddish-purple, with drooping rays.

Erigeron glaucum (Fleabane). Splendid plants for mixed borders; will thrive well in moist places.

Funkia variegata. Very handsome plants, and admirably adapted for the border or rockwork.

Gaillardia grandiflora is a very showy plant, and should be in every collection.

Geum coccineum (Scarlet Geum). The Geums are very pretty plants, and adapted for the border or rockwork.

Helenium autumnale (Sneezewort) is well adapted for margins of shrubberies, or the back of herbaceous borders; it flowers very abundantly, and is one of the most valuable of hardy plants.

Hemerocallis fulva. Large orange-colored flowers, and handsome foliage; very valuable, and will last for many years without removing.

Iris Kæmpferi is a new species from Japan, and without exception produces the most gorgeous flowers known — the Orchids not excepted — and in the greatest variety of color. They should be kept very wet during the summer. Many of the flowers at the exhibitions measured from eight to ten inches across.

Lathyrus latifolius (Red Everlasting Pea). The flowers are large, bright red, produced in great abundance, and are very beautiful; no garden should be without them.

Liatris spicata (Blazing Star) is an exceedingly beautiful border plant, with purple flowers.

Lilium candidum. Easter Lily, pure white.

Lotus corniculatus has orange-yellow flowers, clustered on the stems.

Lychnis is a genus of hardy plants of easy culture.

L. chalcedonica is red and white.

L. Haageana, brilliant scarlet.

Lysimachia Nummularia (Moneywort). Bright yellow.

L. trisoidea.

L. vulgaris (Common or Yellow Loose-strife).

Lythrum roseum superbum is a vigorous perennial, thriving best in damp locations.

Malva Alcea has pale, rosy-purple flowers.

M. moschata alba has white, fragrant flowers. The Malvas are handsome plants and of much value to the border.

Monarda didyma, a very ornamental plant, and one of the best of the species; very effective if planted in masses.

Œnothera biennis. Common Evening Primrose.

Œ. fruticosa (Shrubby Evening Primrose). Deep yellow.

Œ. macrocarpais, a very fine variety. This is an elegant genus and should be generally grown. The species mentioned are among the most beautiful and attractive of hardy plants.

Opuntia Rafinesquii is a very interesting species, and is very effective on rockwork or stone walls.

Papaver alpinum is yellow, rose tinted. The cultivation of the poppy is very simple, and the species are admirable subjects for the border.

Pentstemon digitalis (Foxglove-like Pentstemon). Of an exceedingly floriferous habit; flowers white.

Phlox Carolina. One of the best known border plants.

P. paniculata. Pink and purple, varying to white.

Physostegia Virginiana. A tall, full-blooming plant, of easy culture: flowers flesh-colored or purple.

Polemonium cœruleum (Jacob's Ladder). Light-blue flowers; the foliage is fern-like and very handsome.

Rudbeckia grandiflora. Strong growing, easily cultivated, and very showy.

Scabiosa Caucasica. Pale blue; a very handsome border plant.

S. graminifolia. Pale blue, vigorous growing, and free blooming.

Silene maritima (Catch fly). White; admirably adapted for spring flower gardening.

Spiræa lobata (Queen of the Prairie). Deep peach bloom; handsome.

S. palmata (Palmate Leaved Spiræa). Brilliant crimson; a very beautiful perennial, striking and effective.

S. Ulmaria (Queen of the Meadows). White, sweet.

Thalictrum angustifolium (Meadow Rue).

T. Fendleri.

Tunica saxifraga. Adapted to rockwork and the front of mixed borders.

Veronica Caucasica. Pale red.

V. incana. Blue. The Veronicas are a splendid family of hardy plants, thriving in any good garden soil.

Vinca herbacea (Periwinkle). Excellent trailing plants for banks or rockwork, or the wild garden.

Prize for the best Market Strawberry Garden.

Applications were received from Varnum Frost, of Arlington, and F. J. Kinney, of Worcester. On the 18th of June your Committee went to Worcester, but the disadvantage of a very wet afternoon prevented us from inspecting the garden as thoroughly as we had hoped to do. Mr. Kinney's statement will be read with interest and profit.

June 20 the Committee went to Arlington, and it is hardly necessary to tell you of the great satisfaction this visit afforded us. Mr. Frost's statement will also be read with much satisfaction.

These gentlemen have undoubtedly given quite as much attention as any other cultivators of the Strawberry to the production of the best fruit possible for the market; as to the success they have achieved, the exhibits they have made furnish better testimony than can be given by any written description. The value of the Strawberry is second to no other small fruit, and the Committee feel that continued encouragement to the best Strawberry gardens will meet your hearty approval.

Statement of Varnum Frost.

My mode of cultivation of the Strawberry is as follows:

First, — as to soil. I prefer fairly rich soil which possesses a yellow loam or clay-like sub-soil, and which is capable of withstanding considerable drought. Thin, dry soil is practically worthless for the cultivation of the strawberry.

Second, — as to the amount and kind of manure applied. I have obtained the best results by the use of stable manure, applying from ten to fifteen cords to the acre, on land already in a good state of cultivation.

Third, — as to the method pursued in setting plants. They do best when set about the first of May, in rows five feet apart, two feet distant from each other in the row. It is a great mistake to set the plants too near together; excess of vines — particularly with such varieties as the Belmont, Jewell, or Sharpless — must be avoided if the grower expects to get many, or first-class berries. Such varieties as the Belmont or Jewell should never have plants nearer than seven inches in the "matted row."

As a matter of economy, setting plants about the first of August one foot apart, in double rows one foot distant from each other, leaving vacant paths two feet wide between each set of double rows, has proved with me a very satisfactory mode of planting. For this method "layer" plants are best — the second or third removed from the parent plant, and they must not be allowed to propagate. From my experience, "layer" plants are much better than potted plants, as they are stronger, having grown under more favorable conditions.

Fourth, — as to the amount of labor. I should estimate the cost of labor at about $150 to the acre under average conditions; but of course it is difficult to estimate very accurately, as so much depends upon the peculiar circumstances of each case. It is my

practice to raise certain crops, which mature before the first of August, between the rows of strawberry plants set out in the spring. Of course this method decreases the amount and cost of labor specially chargeable to the strawberry plants.

Yours respectfully,

VARNUM FROST.

BELMONT, Dec. 17, 1891.

STATEMENT OF F. J. KINNEY.

The ground on which my Strawberries were growing was planted in the spring of 1889 with early potatoes, fertilized with about eight cords of well decomposed horse manure, spread on the surface and harrowed in. At the time of planting the potatoes the ground was furrowed five or six inches deep and about six hundred pounds of Stockbridge potato manure was strewn in the furrows as evenly as possible, and mixed with the soil by running a horse-plough twice in each furrow after sowing it. The potatoes were cut two eyes to a piece, and dropped eighteen inches apart in the bottom of the furrows, and the covering was done with hoes.

The potatoes were dug in July and yielded a heavy crop. I then applied five hundred pounds more of Stockbridge potato manure and sowed turnip seed broadcast, and in the fall gathered a very large crop. After the turnips were pulled in the fall, the ground was ploughed five or six inches deep and left in the furrow over winter. In April, 1890, I sowed twelve hundred pounds of fine ground bone that had been steamed and dried before grinding, and from four to five hundred pounds of muriate of potash; then harrowed the ground *very thoroughly*. We set the Strawberry plants the last of April and first of May, eighteen inches by four feet apart, the rows running north and south.

The horse and cultivators were run between the rows once a week, using a shell-toothed cultivator first and following in the opposite direction with a straight toothed cultivator.

The plants were set by a line, so that we could cultivate very near them. Boys went through with onion hoes four or five times in the season, at a slight expense. When the plants had put out a good many runners, the cultivators were narrowed up, and the plants were straightened and layered in the forenoons by boys and girls who picked berries in the afternoons.

The last thing done before the ground froze up was to go over the field and take out what few weeds were left. After the ground had frozen two or three inches deep, we covered the bed with meadow hay, at the rate of three tons to the acre, and scattered old bean poles over the hay to keep it from being blown off.

About the first of April, 1891, we raked the hay from parts of the bed where we wanted to take out plants, and make paths; where we did not want to take plants, we raked the hay from the main line of plants two and one-half feet wide, for beds, and left the hay where we wanted paths. The part of the bed where all the hay was removed was afterwards mulched with what hay had been taken off, after we were through taking up plants.

We commenced picking Strawberries from the bed June 17, 1891, M.A.C. 28, May King, Kinney's Eclipse, Miner, and Bubach being the first, followed by Jesse, Ada, Belmont, Charles Downing, M.A.C. 24, and Jucunda, with a few Sharpless. The Sharpless suffered more from the hard winter and late spring frosts than any other variety.

The past week the Strawberries have been very large and fine flavored, and from appearances now we shall have good picking on some of the varieties all of this week, and most, if not all, of next, making four weeks, or more, of continuous picking from the same bed. The vines look better than I have seen strawberry vines, at this season of the year, for several years. I presume the use of Bordeaux mixture had something to do with it.

All of which I submit, and if there is anything more that I can explain to you I will gladly do so.

Two weeks hence I can tell how many berries we have gathered from the above-described bed.

Yours respectfully,

F. J. Kinney.

Mrs. Mary E. Loud's Wild Garden.

A member of the Garden Committee, with a few other members of the Society, by invitation of Mrs. Mary E. Loud, visited her Wild Garden in Chelsea on the 26th of June. This is not a wild garden in the sense of garden flowers planted at random and allowed to become wild, but consists, with comparatively few exceptions, of our native plants, and includes some rare species. The garden was judged to be about thirty feet long by less than twenty

feet wide, and only a strip around the margin, about three feet wide, is cultivated, the centre being grass. In this border Mrs. Loud has planted more than a hundred species of native plants, and it was plain that the collection of them and caring for them had been a labor of love to her. The collection was evidently made rather from the botanist's than from the florist's point of view, and of course it could not be expected that it should present the bright colors of garden flowers, or even be as brilliant as if the most showy native plants had been selected, but almost every plant had some association connected with the time and place where Mrs. Loud had collected it, or with some friend who had given it to her. A noticeable part of the collection was the Ferns, which included several rare kinds. The Botrychium was growing in a pot, and the Goodyera and Camptosorus (the latter already "walking") were cultivated under a glass shade, but with these exceptions all were growing in the border before described.

The following-named plants were in Mrs. Loud's collection:

Clematis Virginiana. Common Virgin's Bower.
Hepatica triloba. Liver-Leaf, Round-Lobed Hepatica.
Thalictrum dioicum. Early Meadow Rue.
" *polygamum.* Tall Meadow Rue.
Ranunculus fascicularis. Early Crowfoot.
" *bulbosus.* Bulbous Crowfoot, or Buttercup.
" *acris.* Tall Crowfoot, or Buttercup.
Aquilegia Canadensis. Wild Columbine.
Actœa alba. White Baneberry, White Cohosh.
Podophyllum peltatum. May-Apple, Mandrake.
Sanguinaria Canadensis. Blood-root.
Chelidonium majus. Celandine.
Papaver somniferum. Common Poppy.
Dicentra Cucullaria. Dutchman's Breeches.
Corydalis glauca. Pale Corydalis.
" *aurea.* Golden Corydalis.
Viola pedata. Bird Foot Violet.
" *cucullata.* Common Blue Violet.
" *blanda.* Sweet White Violet.
" *lanceolata.* Lance-Leaved Violet.
" *rotundifolia.* Round-Leaved Violet.
" *pubescens.* Downy Yellow Violet.
" *Canadensis.* Canadian Violet.

Silene Cucubalus. Bladder Campion.
Claytonia Virginica. Spring-Beauty.
Malva rotundifolia. Common Mallow.
Geranium Robertianum. Herb Robert.
Oxalis Acetosella. Common Wood Sorrel.
Celastrus scandens. Shrubby Bitter-sweet.
Medicago lupulina. Black Medick, Nonesuch.
Apios tuberosa. Ground Nut.
Cassia nictitans. Wild Sensitive Plant.
Geum Virginianum. Avens.
Fragaria Virginiana. Strawberry.
Potentilla Canadensis. Common Cinque-foil or Five-finger.
Tiarella cordifolia. False Mitre-wort.
Mitella. Mitre-wort, Bishop's Cap.
Angelica hirsuta.
Osmorrhiza longistylis. Sweet Cicely.
Aralia hispida. Bristly Sarsaparilla.
" *quinquefolia.* Ginseng.
" *trifolia.* Dwarf Ginseng, Ground-nut.
Lonicera grata. American Woodbine.
Houstonia cærulea. Bluets.
Solidago cæsia.
" *macrophylla.*
" *rugosa.*
Aster Novæ-Angliæ.
" *patens* (The rare pink form).
" *lævis.*
Aster (Seedling).
Rudbeckia laciniata. Cone Flower.
Chrysanthemum Leucanthemum. Ox-eye or White Daisy, Whiteweed.
Tanacetum vulgare. Common Tansy.
Asclepias incarnata. Swamp Milkweed.
Gentiana Saponaria. Soapwort Gentian.
Solanum Dulcamara. Bitter-sweet.
Veronica serpyllifolia. Thyme-leaved Speedwell.
Mentha viridis. Spearmint.
Nepeta Glechoma. Ground Ivy.
Asarum Canadense. Asarabacca, Wild Ginger.
Goodyera repens. Rattlesnake Plantain.

Goodyera pubescens. Rattlesnake Plantain.
Iris versicolor. Larger Blue Flag.
" *verna.* Dwarf Iris.
Polygonatum giganteum. Great Solomon's Seal.
Streptopus roseus. Twisted-Stalk.
Uvularia perfoliata. Smaller Bellwort.
Erythronium Americanum. Yellow Adder's-tongue.
Lilium Philadelphicum. Wild Orange-red Lily.
" *superbum.* Turk's Cap Lily.
" *Canadense.* Wild Yellow Lily.
Trillium erectum. Purple Trillium.
" *grandiflorum.* Large White Trillium.
" *erythrocarpum.* Painted Trillium.

FERNS.

Adiantum pedatum.
Pteris aquilina. Common Brake.
Asplenium thelypteroides.
" *Filix-fœmina.*
Camptosorus rhizophyllus. Walking-Leaf.
Phegopteris polypodioides.
" *Dryopteris.*
Aspidium Noveboracense.
" *spinulosum.*
" *Boottii.*
" *cristatum.*
" *Goldianum.*
" *marginale.*
" *acrostichoides.*
Cystopteris bulbifera.
Onoclea sensibilis. Sensitive Fern.
" *Struthiopteris.*
Woodsia Ilvensis.
Osmunda regalis. Flowering Fern.
" *Claytoniana.*
" *cinnamomea.* Cinnamon Fern.
Botrychium matricariæfolium.
" *ternatum.*

Hon. Joseph S. Fay's Estate, Wood's Holl.

On the 22d of July the Committee visited this estate, which contains between seven and eight hundred acres, and is devoted to various departments of culture; the garden, the farm, and forestry. Specialties have been made of the Rose, Hollyhock, Vegetables, and Forest Trees, and you are invited to peruse carefully the statements of Mr. Fay on experimental forestry, and of M. H. Walsh, the gardener, on the other subjects. You have often seen at our exhibitions the products of Mr. Fay's gardens, which are ample proof of the superior and careful cultivation received by everything that he undertakes to grow. To say that this visit was one of much pleasure would be quite true, but the best of all was that it was of great profit, and we have tried in this report to inform you how the excellent results witnessed have been brought about. To Mr. Fay and his family, and also to Mr. Walsh, the Committee extend their hearty thanks for the untiring efforts made to promote their comfort and pleasure, as well as the object of their visit.

Mr. Fay's Statement in regard to Forest Planting.

In connection with the garden there are upwards of four hundred acres contiguous, of which sixty acres are in pasture and thirty acres under cultivation as a farm. The rest of it is in woodland. Of this, seventy-five acres have been grown by seeding old worn-out pastures, and twenty-five acres by transplanting trees from the nursery. The former were planted by simply scattering pine seed on the green sward in the spring, beginning about thirty years ago, and now the land is covered with pine trees from twenty to thirty feet high. Scotch Pine seed was used for the most part. These were sown too thickly, and, the soil being very light and dry, the later growth has not been as vigorous or as satisfactory as the early promise, and he now regrets that he had not planted a larger proportion of the native Pitch Pine. The White Pine he finds does not thrive where exposed to the winds from the salt water. These seeded pines, however, grew vigorously in their early stages, affording shelter for the blue jays, which carried in quantities of acorns and some hickory nuts for their winter food. Such as they did not eat sprang up, and now as the pines are thinned out the oaks and other deciduous trees are filling the

vacant spots. Thus the oak forest is coming in where only pine seeds were at first sown. The twenty-five acres planted with nursery trees were in clear spaces in the original forest growth of oak, hickory, and other indigenous hard-wood trees. These plantings were of Scotch Larch, Scotch Birch, English Oak, Sycamore, Norway Spruce, etc., all of which have done well, and are now propagating themselves. The growth of these transplanted trees, although on poor soil and hilly places, much exposed to sea winds, has been quite remarkable, as may be seen near the dwelling-house. Many of the larches and birches first planted are forty feet high and twenty inches in diameter at the base. None have been cut except for thinning, which should have been done earlier and more extensively, as the land has been overburdened. I think that close planting is a too common mistake. I have cut hundreds of loads of the seedling trees, supplying the neighbors with fuel, but they should never have been allowed to attain such a size before thinning. It has drawn too heavily on the light soil.

Mr. Walsh's Statement in regard to Cultivation of Flowers and Vegetables.

Hybrid Perpetual Roses. — I make it a practice always to transplant Roses in November into good rich soil. In preparing the bed I dig about eighteen inches deep, using a liberal dressing (about four inches deep) of cow manure. I like the low-budded roses best, and plant them so as to have the budded part three or four inches below the surface. I cover the whole of the bed with leaves about six inches in depth, laying on some brush to keep the leaves from blowing away.

Early in March, if the weather will permit, I remove the leaves and prune the plants, and then shake in between the branches by hand a few leaves to keep the sun from them. I then fork in about two inches of ordinary barn-yard manure. In pruning roses of free or climbing habit, I leave the shoots from two to three feet long; those of dwarf habit I leave only from twelve to fifteen inches.

I find syringing twice a week very beneficial after the leaves put out; this is done in the late afternoon or evening. As soon as the leaves begin to show, I give all the plants a liberal dusting of white hellebore. I have to apply it twice during the season.

I keep a sharp lookout for mildew, and apply sulphur on the diseased branches. In England they use sulphide of potassium — one ounce dissolved in four gallons of water — syringing the plants with the same, which is quite as effective as sulphur, and not so unsightly. I shall try this solution the coming spring, should occasion require. For green fly I use a solution of whale oil soap.

When the buds are just beginning to show, I water with liquid manure from the barn cellar, and repeat it when the buds have fully formed; also just before they begin to open.

As soon as the buds are large enough, I disbud where I want fine flowers, leaving only one bud on each flower shoot. After flowering — about the 10th to the 15th of July — I prune all the vigorous growing varieties, such as Paul Neyron, Antoine Mouton, Alfred Colomb, Ulrich Brunner, Gloire Lyonnaise, La Reine, Duke of Connaught, Louis Van Houtte, and Anna de Diesbach, cutting out most of the old wood that has flowered; then I sow some guano, rich in ammonia, and fork it in. They will then make a fine growth and produce nice flowers in September and until frost comes.

The following varieties seem to grow well here:

Abel Carrière,	John Hopper,
Alfred Colomb,	Marchioness of Lorne,
Baron de Bonstetten,	Marquise de Castellane,
Baroness Rothschild,	Marie Baumann,
Comtesse de Serenye,	Merveille de Lyon,
Countess of Oxford,	Mme. Gabriel Luizet,
Duc de Cazes,	Mme. Victor Verdier,
Duchesse de Vallombrosa,	Mons. E. Y. Teas,
Dupuy Jamain,	Mrs. John Laing,
Elizabeth Vigneron,	Prince Camille de Rohan,
Étienne Levet,	Prince de Portia,
Gloire Lyonnaise,	Souvenir de William Wood,
Hippolyte Jamain,	Thomas Mills,

Ulrich Brunner.

Hollyhocks. — I find from my experience in cultivating Hollyhocks that they do best in light, rich loam. In preparing the bed it should be dug from eighteen inches to two feet deep, and well enriched with barn-yard manure. Seeds sown in June make good strong plants for transplanting in October, which I think is the

best time of the year to transplant, as they become firmly established in the ground by making fine roots, which continue growing until well along in December, long after the leaves are killed by frost. Three feet apart each way seems to be a suitable distance to plant. About the 10th of December we cover the whole bed with leaves or coarse stable litter to the depth of eight inches, covering the crowns of the plants lightly, about four inches, placing the litter carefully around the plants. I have found that covering the crowns of the plants too heavily holds too much moisture, which causes the crowns to decay. Covering lightly, the rain and snow-water run through the litter. I think it is the moisture and not the frost which injures the plants most. About the first of March half of the covering is removed from the bed and crowns; if left later, they begin to grow and make a weak growth. The latter part of March all the covering is removed and the bed is forked over.

During May and June they are given water once a week, unless we have frequent rains, as at this time they absorb a great amount of water. When the plants are eighteen inches high we stake them and tie them, cutting out any weak or surplus shoots.

This year we had about three hundred and fifty plants, which would average eight and one-half feet high, with four stalks to each plant, and from thirty-five to forty flowers on each stalk.

I also had a bed of two hundred and fifty plants from seed sown August 22, 1890, which flowered the latter part of July and early part of August of this year; the height of the stalks was six and one-half feet. These plants were left in the seed bed in the open ground all winter, covering with leaves to the same depth as directed for older plants, and transplanting as soon as the frost was out of the ground. The main roots attained a length of eighteen inches from the date of sowing until cold weather set in.

We have had no trouble from the fungus as yet. I hope that our professors at the Agricultural College will investigate this fungus, which is so fatal to the Hollyhock in certain localities, and succeed in finding a remedy for it. It is a black fungus or blight that is most prevalent in this country, while the Yellow or Orange fungus destroys Hollyhocks in England. It is by this disease that so many of the best colors have been entirely lost.

Vegetable Garden. — The Vegetable Garden comprises about four acres, in which are grown a general collection of small fruits

and vegetables. Of small fruits we have six varieties of Strawberries, the Cuthbert Raspberry, and five varieties of Currants. One of the best Strawberries the past season was the Bubach No. 5, a free, robust grower and prolific bearer, with fine, luxuriant foliage; the berry large and of fine flavor. Next was the Sharpless; Belmont, third; of Charles Downing, the foliage rusted badly.

Onions. — We grow three varieties: Danvers Yellow Globe leads them, being prolific and the best for winter keeping. Red Wethersfield is also prolific and a good variety to keep. The White Portugal is one of the earliest varieties, but not a good winter sort.

The past season, on February 28, I sowed seeds of the above varieties in flats or seed boxes, in a hot-bed, and after hardening them off they were transplanted on April 10 to the open ground, in rows fourteen inches apart and six inches in the row.

The soil had been ploughed and harrowed, seven hundred pounds of ground bone and six hundred pounds of sulphate of potash to the acre harrowed in; it was then rolled with a heavy iron roller. The seedlings were transplanted with a trowel, as the roots could be spread out better. The result of this method was very satisfactory in every way as compared with a plot in the open ground, sown in another garden, on the same day the transplanting was done. When those from the seed sown in the open ground were up above ground, those which were transplanted were nine inches high, kept on growing rapidly, and were ripe and ready to harvest August 7.

Those transplanted were easy to cultivate and could be hoed very rapidly — we used a Dutch hoe — and very little hand-weeding was necessary; while with those sown in drills in the customary way, when the onions were fairly above ground, the weeds were also, and the weeding, hoeing, and thinning-out was slow and tedious.

While transplanting seedling onions is not a new way, as it is practised in some places in England to a great extent, and some marketmen around Boston adopted the same mode of cultivation a few years ago, and perhaps do so at the present time, still it is not the general practice in this country.

The advantages gained by transplanting onions, are, first, it gives them a longer and more suitable season in which to make their growth and mature, as the young roots strike down into the soil

early in the season, and should dry weather set in during June or July, it does not retard their growth, the roots being then from twelve to fourteen inches below the surface. Another advantage is the saving of labor, as shown above, and still another is the early maturity of the crop. When these were ripe — this year it was the first week in August — the market price was from $3.25 to $3.50 per barrel; in September the price had fallen to $2.25 and $2.50 per barrel.

The above mode of growing the onion only needs one trial to convince those who test it which is the most profitable.

Cauliflowers thrive well in this locality, where we have large, well-matured heads fit to cut the last of May. I sow the seed in a hot-bed the last week in February. When they show the second leaf I transplant them four inches apart, and keep at a temperature of about 60° for two weeks, giving air freely on pleasant days, gradually exposing and hardening them to the weather. Small plants with four or five leaves have withstood the cold and frost when the thermometer registered 22°.

They delight in an abundance of moisture, and I find manure rich in nitrogen best suited for their growth. I plant them in the open ground as soon as the frost is out, in rows three feet by two and one-half feet, pressing the plants firmly in the soil. I hoe them as occasion may require to keep weeds down, and give water if the ground is dry. As soon as they are cut I plant sweet corn, or lettuce, etc., for a second crop.

Last June cauliflowers sold in Boston market at fifty cents per head. Henderson's Early Snow Ball, and the London Early Market Snow Ball, I find the earliest and most reliable.

Lettuce. — After giving about forty varieties a fair trial, we find the following list to be the best selection for home use. For very early spring the White Seeded Tennis Ball; for succession, the Neapolitan, the White Paris Cos, and Bath Cos. The last two are French varieties, and they are more tender and better flavored than any others. Lettuce to be of first quality should have the highest cultivation, and a fertilizer rich in ammonia, to make rapid growth, with a little sulphate of potash to sweeten and give it that nutty and aromatic flavor which is so desirable.

For marketing, the White Seeded Tennis Ball and the Black Seeded Tennis Ball are the most profitable to grow, as they have small or medium-sized heads, and bear transporting well, but

they are deficient in quality in comparison with the varieties before named.

Potatoes. — Of these we grow about twelve varieties; the Beauty of Hebron stands at the head; Charles Downing next, and I am inclined to give the New Queen the third place. We use Bowker's Potato Fertilizer, put up expressly for potatoes, about twelve hundred pounds to the acre, and in addition, five hundred pounds of pure dissolved ground bone.

In preparing the ground we plough nine inches deep, pulverize by harrowing, and then it is rolled and furrowed, the drills being made three feet apart and six inches deep. The fertilizers are sown on each side of the furrow or drill. The tubers are cut to one eye, if possible, and are planted fourteen inches apart in the row. We then cover with the hoe, which mixes the fertilizer pretty thoroughly around the tubers.

As soon as the potatoes break ground we run the cultivator through the field. This we repeat in ten days and then hoe them, hilling lightly up to the lower leaves. The last hilling we do with a double-mould-board plough and one horse, which completes the work except pulling up the large weeds to prevent their seeding.

I find one application of Paris green sufficient to keep the potato beetle from doing any injury to the vines. I use it early, as soon as the beetles make an appearance, and for two years we have not been troubled much by them.

WOOD'S HOLL, Dec. 2, 1891.

PRIZE FOR THE BEST VINEYARD.

The applicants were Samuel Hartwell, of Lincoln; Arthur J. Bigelow, of Marlboro'; and G. B. Andrews, of Fitchburg.

The successful competitors were Mr. Bigelow and Mr. Hartwell. Their statements of their experience are most interesting and profitable. The season of 1891 was unusually favorable for the production of good grapes, as the exhibitions — especially the fall one — and the great abundance in the markets amply proved. What the strawberry is to the family in the spring the grape is in the fall, and the breakfast table and the dessert are not complete without these fruits in their seasons. To those who have not and cannot have the facilities for raising them it is a great blessing to know from whom they can obtain the best. But it is a greater blessing to those who have such facilities when the successful

producer is willing to tell his brother men how to obtain such satisfactory results, so that they can do likewise. Mr. Bigelow's statement is as follows:

STATEMENT OF ARTHUR J. BIGELOW.

MARLBORO', December 15, 1891.

MR. JOHN G. BARKER, *Chairman of the Garden Committee of the Massachusetts Horticultural Society:*

DEAR SIR, — In answer to your inquiry concerning my method of grape culture, I write you as follows: The soil of my vineyard consists of a deep clayey loam, interspersed with cobble-stones, bowlders, and ledge, underlaid with a hard, gravelly subsoil. It would be considered, by most farmers, a very hard piece of land to cultivate for ordinary farm crops. It has a south-easterly or southerly exposure, and contains about one and one-half acres of land, planted with eight hundred vines, about one hundred being Moore's Early and the remainder principally Concords.

With the exception of the Moore's Early, my vines were planted in 1870, and have fruited ever since the first two seasons. The vines are planted eight feet apart, in rows, the rows being ten feet apart. Each vine is trained to a single trellis, formed of two chestnut posts about five inches in diameter, and about six and one-half feet in length. They are set in the ground about four feet apart, so that the vine comes about midway between them; the tops are sawed off about five feet from the ground, and joined by a chestnut cleat four feet long and two inches wide by one inch thick, to keep them from spreading; below the cleat four wires are stretched about nine inches apart, to which the vine is fastened. I like this sort of trellis on account of the ease in taking care of the vine and harvesting the fruit.

I do my annual pruning in November, after the foliage has fallen, and before the wood has frozen. At this season the vines bleed very little, and the wood is so pliable that it can be trained in almost any form desired. I follow what is called the renewal system of pruning, leaving one cane and eight buds for the next year's fruit, and also one or two buds to grow a cane for the year after. By this system of pruning the vine is kept compact and near the main trunk.

My summer cultivation consists, first, in a dressing of ground bone, wood ashes, or superphosphate, according to what I happen

to have on hand; either of the three is good. I sow about one ton in the vineyard as early in the spring as the ground will do to work, and then go over the piece with a horse and light cultivator, and give the soil a good, thorough stirring, so as to let it warm as fast as it can. As soon as the fruiting arms get out five leaves in length, I check their growth, so as to throw the strength of the vine into hardening the canes and growing the fruit. The fruiting cane for next year's fruit I also check when it has reached eight or nine buds in length, and tie it to the wires to guard against its being broken by the wind. The laterals on the canes for next year's fruit I allow to grow two leaves in length before checking, as I have found from experience that I get a better fruiting arm from the buds on the laterals than from the main cane; all the other laterals I keep checked back to one leaf. About the first week in July I go through the vineyard and cut off such fruit as I do not wish to save for ripening. I calculate to leave about eight pounds of fruit to a vine. Some years I have been troubled very much by the rose-bugs eating into the blossoms, and thus spoiling to a great extent the shape of the clusters. I have found no effectual remedy for the pest except hand picking, and that is a great deal of work. For the last five or six seasons I have been fortunate in having but very few to contend with. For several years I have noticed more mildew than previously, and I think it is on the increase. I have tried no remedy for it, and can not say to what it will lead. I have noticed that some younger vines which I have set in a new field, do not show mildew to any extent, and I think it may be brought on by the lack in the soil of something that the vine needs.

I usually begin harvesting my Moore's Early grapes about the first week in September, and the Concords about two weeks later. I let the fruit hang on the vines until marketed, unless there is danger of a freeze, in which case I gather them on shallow trays, and place them in a cool, dry room until marketed. I send them to market in twenty-five pound baskets, with a cushion of fine rowen in the bottom; two layers in a basket, with paper between the layers. I have on an average about three tons of marketable fruit annually.

This last season I tried the experiment of girdling on two rows of vines around the outside of the field, which are shaded by the trees on the roadside and orchard, and met with very good success. I had never before been able to gather more than half

a crop from those vines. Owing to the shade of the trees, the clusters formed were very loose and irregular, and late in ripening; but this season, from the effects of girdling, the grapes on these vines were the first to ripen; the clusters were compact, and the flavor of the grapes good, and I was pleased with the result. What effect the practice would have on the vines if followed up, I cannot say; to all appearance the vines are, so far, none the worse for the treatment. Through the summer I keep the soil loose by frequent hoeings, and allow no weeds to grow around the vines or in the rows. I think stones are an advantage in a vineyard, as they help hold the moisture and the heat, and tend to keep away frosts.

Yours truly,

ARTHUR J. BIGELOW.

STATEMENT OF SAMUEL HARTWELL.

To the Garden Committee of the Massachusetts Horticultural Society, JOHN G. BARKER, *Chairman:*

GENTLEMEN, — My vineyard comprises about eight acres, of which about five acres are of the Moore's Early variety, and about three acres mostly of white grapes, among which are the Pocklington, Niagara, Hayes, and Esther. The acre which I offer for the Society's prize is of the Moore's Early variety. I request that you select any acre you choose, but in this statement I will treat it as a whole. I find by referring to the Report of the Garden Committee in the TRANSACTIONS of the Society for the year 1888, Part II., page 299, that I then made quite a full statement of my treatment of the vineyard. I see no reason to change that statement, except, perhaps, to say that I would apply twice the quantity of fertilizer, say four or five hundred pounds per acre, in the proportions stated. I apply it broadcast over the entire surface, and cultivate only a few inches in depth through the season, or as long as the weeds are troublesome.

Of Moore's Early, the present year's crop was nearly fifteen and one-half tons; the average price at which I sold them was four and one-fourth cents per pound. The crop was the largest ever grown on the vineyard, but the average price was much less than for several years. The low price was owing to a large yield of grapes and a very abundant peach crop.

I am very favorably impressed with the Worden grape, which is

of the same color as the Moore's Early, somewhat later, usually ripening from the middle to the last of September, and is a very prolific bearer of delicious fruit. Of the white varieties, I have found the Pocklington the most profitable. It is an immense bearer of very compact bunches of large and showy fruit of good quality. The present season has been unusually favorable for ripening late varieties. I would not recommend the growing of white grapes in large quantities, as the market does not take kindly to them.

Respectfully,

SAMUEL HARTWELL.

LINCOLN, Nov. 21, 1891.

At the time of the Committee's visit to the vineyards, their attention was called to a very thrifty and productive Plum Orchard at G. B. Andrews'. The success which has followed his efforts induced the Committee to ask for a statement in regard to its cultivation, which has been kindly furnished; it refers in part, however, to an acre of Delaware grapes.

STATEMENT OF GEORGE B. ANDREWS.

FITCHBURG, Nov. 27, 1891.

MR. JOHN G. BARKER:

DEAR SIR, — I received your letter informing me of the kind gift from your Society, and was quite surprised, as I was not expecting anything of the kind, but was waiting to see what they had to say about the acre of Delaware Grapes that I entered. But I presume they have not made a decision yet. I would say that the crop ripened well, and yielded at the rate of ten pounds to the vine, and one vine, the fruit of which I weighed, had fifteen pounds on it. The leaves kept well to the last, and the wood has ripened thoroughly.

As for the Plums, I set the orchard five years ago; twenty-five Bradshaws and twenty-five Lombards, with a few of other varieties. This is the third crop, and this year they carried a bushel to the tree. The set in the spring was enormous, and though I thinned them, picking off three-fourths, that was not enough; I should have taken off four-fifths instead. As it was, I had to set fifty props under the branches to prevent their being broken down. The orchard is in a hen yard; the trees were set fourteen feet apart each way, and have been kept headed-in, the same as Peach trees. The black knot has not troubled me a great deal — not so much but that I have kept it down with the knife. This year I sprayed the

trees several times with Bordeaux mixture and Ammoniacal Carbonate of Copper. I suppose that had the Boston Board of Health known it, they would have raided Winn, Ricker, & Co.'s stall. During the summer I stirred the ground with a cultivator. The land was formerly set to Peaches, ten feet apart, and on the trees I had one crop of peaches that were as good as the crop of plums, selling for five and six dollars per bushel.

Yours truly,

G. B. ANDREWS.

PEARL HILL FARM.

The Committee have made the following awards:

For the best arranged and best kept collection of named Hardy Perennial and Biennial Plants, Nathaniel T. Kidder	$50 00
For the best arranged and best kept Stove or Greenhouse Plants during the month of March or April, Nathaniel T. Kidder	50 00
For the best Market Strawberry Garden, Varnum Frost,	50 00
For the best Vineyard, Arthur J. Bigelow	50 00
For the second best Vineyard, Samuel Hartwell	30 00
Gratuities:	
To Dr. C. G. Weld, for highly successful cultivation of Cyclamens and Cinerarias	15 00
To Joseph H. White, for a fine collection of Palms	15 00
To G. B. Andrews, for successful culture of Plums	15 00
To F. J. Kinney, for a good collection and successful cultivation of Strawberries	15 00
To Hon. Joseph S. Fay, for successful experiments in forestry	25 00

In closing we invite your attention to the list of prizes for this year, which have been somewhat increased from previous seasons by an additional appropriation of two hundred dollars. Your earnest and hearty coöperation is solicited.

All of which is respectfully submitted.

JOHN G. BARKER,
E. W. WOOD,
ARTHUR H. FEWKES,
C. N. BRACKETT,
HENRY W. WILSON,
CHARLES W. ROSS.
} *Committee on Gardens.*

REPORT

OF THE

COMMITTEE OF ARRANGEMENTS,

FOR THE YEAR 1891.

The Exhibitions of the Society for the past year have been very well patronized by the public.

The coöperation of the various committees has been a great help in making the Exhibitions worthy of the Society.

The press has shown a very generous spirit in the many notices and reports of all the shows.

The introduction of music at the Chrysanthemum show was very successful.

The five Exhibitions at which admittance fees were charged showed an increase over last year.

Receipts:		
Spring Exhibition	$930 12	
Rose and Strawberry Exhibition . .	276 25	
Annual Exhibition of Plants and Flowers	498 25	
Annual Exhibition of Fruits and Vegetables	138 25	
Chrysanthemum Show	1,677 75	
		$3,520 62
Expenses:		
Spring Exhibition	$320 34	
Rose and Strawberry Exhibition . .	169 60	
Carried forward	$489 94	$3,520 62

Brought forward	$489 94	$3,520 62
Annual Exhibition of Plants and Flowers	244 29	
Annual Exhibition of Fruits and Vegetables	217 73	
Chrysanthemum Show	510 87	
		1,462 83
		$2,057 79

For the Committee,

PATRICK NORTON,
Chairman.

REPORT

OF THE

COMMITTEE ON WINDOW GARDENING,

FOR THE YEAR 1891.

By HENRIETTA L. T. WOLCOTT, Chairman.

Owing to unavoidable delay in the appointment of the Committee to carry on the work, which annually grows in interest — outside if not inside of this Society — the first meeting was called late in January. All the members were present, and new plans were suggested and discussed.

It was decided not to offer prizes for windows of plants, to be competed for by adults, but to encourage more earnest work among children.

Mr. Clapp explained in detail what he felt sure could be accomplished in the line of the paper read by him at one of the winter meetings of the Society. Mr. Hersey was confident that pupils in the public schools in the State could and should be interested in all plants, whether grown as food or for ornament only.

After deliberation, the Committee authorized Mr. Clapp to commence his experiment in establishing a school garden, and promised such pecuniary support as he should need; the study of the germination of seeds, and the formation and duty of roots, in every variety, to be included in the regular curriculum. Circulars were prepared, containing the Schedule of Prizes offered, and other particulars. These were mailed to the superintendents of schools, and to the principal of each school in the State, asking for coöperation, especially in the collecting, preserving, and mounting for Herbariums, of such plants as could be easily secured by school children.

The Annual Exhibitions at North Bennet street and the Church

of the Good Shepherd, offered no new experience; showing as emphatically, probably, as would be seen in our own Society, that the absence of a money consideration tends to indifference on the part of exhibitors.

The Exhibition at Shawmut Avenue Church — Dr. Bundy, Superintendent — was the *best show of pot plants raised by children ever held by this Committee.* A large and varied lot of well-grown plants gratified a wider circle of friends outside of the Committee. Dr. Bundy invites his pupils and their parents to a Whit-Sunday service, when short addresses to the children are followed by the distribution of plants. This tends to impress upon the parents the wisdom of the plans of the Committee. The beauty of the bright blossoms, and the condition of ownership, impress the child usually most favorably.

In the Unitarian church in Malden there is quite an awakening of interest in the movement, which will develop another year. We see signs of interest on all sides. The great obstacle to better work seems to be in the inability of the average (intelligent?) person to understand and follow the directions in circulars. This is by no means confined to children, if the rehearsal of annoyances met by the managers of our great exhibitions are to be credited.

In June the Chairman was invited to write an essay on "The Importance of keeping close to Nature in Education." Of course, the items of the reports annually read before this Society formed an excellent ground plan for the presentation of such desirability. The paper was read at Grand Rapids, Mich., and St. Paul, Minn. In each city it aroused much interest in the audience, but at St. Paul it was most cordially appreciated. The following day I was taken to the quarter of the city where the Scandinavian citizens congregate. There I saw window gardens — upon the outside — most wonderfully adopted.

The streets are wide and macadamized, with the trees covering a space on the level lands near the river, about five miles in length. In this settlement window gardening is generally practised. The lines of boxes outside the windows made a show of ribbon gardening greatly superior to the customary mathematically correct adornment of grounds hereabouts. In the houses, during the severe winters, the people find it burdensome to carry a quantity of plants, and however fond they may be of them, they are obliged to store them in their cellars.

During the late spring this Committee viewed with regret the action of persons trying to influence the Common Council of Boston to give extra work to the City Forester by placing in school-yards the tiresome collection of Geraniums, Ageratums, and Salvias. While it may please the children a little while, it is an expensive plan, and leaves the plants during the long vacation unattended and uncared for save by the city's laborers. No child is half as likely to grow fond of flowers by *seeing* them only; to take a hand in *raising* one is far better in many ways.

At Chicago the report of my paper had reached the teachers, and as I admired the condition of the grounds about the Normal School at Englewood, the facts concerning the work of the pupils in securing such beauty and cleanliness were an added certificate in favor of our work. As funds were not forthcoming to beautify the grounds about the buildings, the Principal, Colonel Parker, proposed that each class — while not neglecting the planting of an ivy or the class tree — should attend to a section of the large, level, and usually unattractive campus.

A mother, in speaking of her boys — lads of twelve and fourteen years of age — said, "Stimulated by the enthusiasm of Colonel Parker, my boys began to see the difference between sandy surfaces and grassy ones dotted with clusters of flowering plants, where before had been barrenness." They worked with a will, and soon began to study the habits of trees, of whose pretty leaves they had made drawings in the class.

Then, when their eyes had seen order and neatness arise in the school grounds as the result of their labor — which, in reality, was their recreation — they began to notice the wretched condition of the little lot of land on which their house stood. Like the school trustees, they had no available funds, but they interviewed their landlord, obtained a few loads of soil, which in play-time they levelled, planted, and later on sodded where necessary. A manly pride stimulated them to make their home beautiful, and, said the little mother, with delight written all over her face, "You should see it now; not a bit of paper or rubbish of any kind is allowed to stay even a moment when driven by the wind into the lot."

As has been clearly demonstrated during the past four years, the difficulty of reaching the children in the counties removed from the Hub are great, unless some enthusiastic teacher or clergyman carries it on as a branch work of his own special duty, as Rev.

Mr. Brooks, of Greenfield, has done. But the plan of preparing dried plants, grasses, and ferns has succeeded beyond the expectations of the Committee.

At the exhibition in December the display was most excellent. Seven competitors for the prizes for collections of flowering plants, and one for ferns, filled all the available room. Each specimen was placed in full view of the examiners.

The requisition of the printed Schedule called for botanical specimens, which always means, when speaking of a Herbarium, the stem — unless very large — root, leaves, blossoms, and fruit or seed. These were to be placed on suitable paper of uniform size and color, the dimensions being printed in the Schedule. Had the competitors all carefully complied with these requirements the Committee would have found it difficult to award the *first* prize. Therefore the prize of five dollars was awarded to the lad Philip Barry, whose exhibit was according to the Schedule. When it is known that the competitors were all of school age, the excellence of the exhibits will be realized. That the notice of the exhibition failed to attract those whose own claims to possible prizes and gratuities call them weekly to the hall, was observed with regret. The few who ventured in were well repaid for the outlay of time required to scan the many specimens.

Did such absence mean that no money value was to be placed on these exhibits as a whole? or did it reveal a wonderful indifference to the aims of the Committee?

When we consider the patience and perseverance required during five months of the year, — and those months when children like to play rather than work, — we feel sure that the gratuities awarded would seem very, very small in comparison with the awards to grown people for the cut flowers often displayed on our tables.

The collections of Gilman Hitchings, of Malden, and Fred Hitchings, of Dedham, were very fine; in number, unfortunately, they exceeded the schedule requirement. Those from Hingham and Ayer showed skill and patience, and faithful performance, in collecting, drying, mounting, and packing for transportation. One could easily learn a lesson in these virtues from those exhibitors. As a purblind visitor remarked, standing at the threshold of the Hall, "No exhibition today, is there?" Oh, yes, and a most excellent one, too. Could his eyes have witnessed the tables, covered with pure white sheets, on which was written the "Tale

of the Blossoms" — carefully prepared — (about six hundred sheets in all) he could not have said in truth, "No exhibition."

The Committee append to their report an interesting account of an experiment in school gardening, by the Principal of the George Putnam School.

For the Committee,

H. L. T. WOLCOTT,
EBEN H. HITCHINGS,
MARY L. VINAL,
H. L. CLAPP,
EDMUND HERSEY,
M. B. FAXON.
} *Committee on Window Gardening.*

THE SCHOOL-GARDEN EXPERIMENT.

Last spring (1891) a school garden was started in the George Putnam School yard, under the auspices of the Window Gardening Committee. The ground was prepared by digging long trenches two feet wide through the sodded part of the yard, and mixing abundant fertilizing material with the excavated soil.

Among the cultivated plants set out were the Moss Rose, Madame Plantier Rose, two varieties of Fleur-de-Lis, three varieties of Columbine, three varieties of Hardy Chrysanthemums, Dahlias and Gladioli in variety, Helianthus, *Polemonium cœruleum*, Stellaria, Phlox, and other plants, all of which were contributed by members of the Committee. The Committee also sent to the school, on one occasion, about a hundred Geraniums in variety, some of which were planted in the school grounds, and some were given to the children of the school to cultivate at home.

Among wild plants were nineteen varieties of native Asters, in one row, all properly labelled. The ten finest flowering varieties formed another row. One teacher and her pupils brought in many local plants, including Jack-in-the-Pulpit, Wild Columbine, Meadow Rue, Rue Anemone, Wood Anemone, Hepatica, *Corydalis glauca*, May-Flower, and several varieties of Violets, Ferns, and other plants. Most of these plants blossomed profusely.

The pupils of the same class also brought in and planted the fleshy roots of biennials, such as the Purple-top Turnip, Rutabaga Turnip, French Turnip, Carrot, Parsnip, Radish, Beet,

Onion, etc. In planting, the pupils took turns in digging the holes and placing the plants in position. Observations were made during the flowering season. The structure of the flowers of the cruciferous and umbelliferous plants was noticed, and the nature of biennials explained.

In addition to the economic plants already named, the Potato, the Tomato, and the Gourd were raised to show the individualism of plants. About a square yard of ground was assigned to each of the following-named grains — Wheat, Rye, Oats, Barley, and Buckwheat. The first four, being most important members of the grass family, were especially interesting in their development, and the last excited interest by contrast in growth.

In the early part of the year 1891, Mr. Ross, of Brighton, gave the school about one hundred and fifty plants of the *Euonymus radicans*, accompanying his gift with an explanation and an illustration of the proper mode of slipping the plants, preparatory to planting them out in the grounds in spring. The pupils of the two highest classes then slipped the plants in accordance with Mr. Ross' directions, in boxes containing sand and leaf mould prepared by him. About half of the plants died, and the remainder were set out by the pupils in turn along by the fence and around a large pear tree, and all the plants lived and grew, but slowly.

The seed-vessels of some of the plants have been saved in bottles for future study. The bulbs — much increased in number — have been stored away for planting next spring. The perennials, such as Asters, Fleur-de-Lis, Columbines, Chrysanthemums, etc., have greatly increased, and there are plants to spare for another garden. The material for plant-study thus obtained is abundant.

In the "Courses of Study" for the Boston Public Schools the Supervisors advocate the study of plants, in connection with a school garden, and the employment of a few hours of time and a small area of land, in the manner specified, may be considered an attempt to put their suggestion into operation.

The importance of seeing plants growing in approximately natural conditions, and frequented by the birds and insects peculiar to them, is not likely to be over-estimated. For a beginning in the horticultural education of children, this experiment appears to have all the elements of success.

HENRY L. CLAPP,
Principal of George Putnam School.

REPORT

TO THE

STATE BOARD OF AGRICULTURE,

FOR THE YEAR 1891.

By GEORGE CRUICKSHANKS, of Fitchburg.

The Massachusetts Horticultural Society appropriated six thousand eight hundred dollars in 1891, to be awarded in premiums and gratuities. In addition to this appropriation, there were several hundred dollars offered as special premiums by friends of the Society. The year began with a course of essays on subjects connected with the work of the Society. The meetings at which these essays are read and discussed take the place of the Farmers' Institutes held by the Agricultural Societies. But instead of three, as required by the rules of this Board, twelve meetings are held each year in the Hall of the Society, on Tremont street, to which all are invited. The essays of 1891 were as follows:

January 10. The Work of the Pomological Division of the United States Department of Agriculture, by H. E. Van Deman, Pomologist, Washington, D.C.

January 17. Evergreen Trees, by William C. Strong, Newton Highlands.

January 24. Roses, by John N. May, Summit, N.J.

January 31. Insects and Fungi Injuring our Fruits, with Remedies Considered, by Samuel T. Maynard, Professor of Botany and Horticulture in the Massachusetts Agricultural College, Amherst.

February 7. Chrysanthemums, by John Thorpe, President of the American Chrysanthemum Society, Pearl River, N.Y.

February 14. The Strawberry and its Culture; Theories and Methods, by P. M. Augur, State Pomologist, Middlefield, Conn.

February 21. The Geographical Distribution of Plants, by

W. F. Ganong, Instructor in Botany at Harvard University, Cambridge.

February 28. The Study of Horticulture in the Public Schools, by Dr. Charles C. Rounds, Principal of the State Normal School, Plymouth, N.H.

March 7. Diseases of Trees Likely to Follow Mechanical Injuries, by William G. Farlow, M.D., Professor of Cryptogamic Botany, Harvard University, Cambridge.

March 14. The Scientific Education of Gardeners, by Charles Linnæus Allen, Floral Park, New York.

March 21. A Plea for Protecting our Native Birds, by Thomas C. Thurlow, West Newbury.

March 28. Ferns, by George E. Davenport, Medford.

April 11. A Winter Visit to the Bahama Islands, by Col. Henry W. Wilson, Boston.

On the 31st of March the doors of Horticultural Hall were thrown open to a waiting multitude, gathered to see the grand display of Flowers and Vegetables spread upon the tables of the Society. A new feature presented itself to the visitor on entering the Lower Hall. Two immense rockeries, constructed in the centre of the hall, were planted with hardy herbaceous plants and shrubs — numbering nearly fifty varieties — all in bloom, while among them were Hyacinths, Tulips, Crocuses, and other spring flowering bulbous plants, presenting a great variety of colors. There was also a very large and fine show of the favorite Pansy, that attracted much attention; a large collection of Tea and Hybrid Roses, including the Baroness Rothschild, Ulrich Brunner, The Bride, Duchess of Albany, Papa Gontier, and La France.

The Upper Hall was devoted to a choice collection of spring flowering plants: the fragrant Hyacinth, the showy Azalea, the Cineraria, the Cyclamen, and several branches of the rosy *Bougainvillea glabra;* also a fine collection of Orchids; the curious *Strelitzia regina*, and the Chorozema.

The Vegetables were represented by Radishes, Celery, Lettuce, Rhubarb, Cucumbers, Tomatoes, and Mushrooms, and were all well grown.

The Rose and Strawberry Exhibition opened June 23 with a very large and fine display of these choicest of summer flowers and fruits. The long central tables in the Lower Hall were laden with magnificent specimens of the king of small fruits. The

Upper Hall was devoted to the Rose; all classes were well represented. As a whole, the collection of Roses, in variety and quality of bloom, was fully up to the high standard of this Society.

The Annual Exhibition of Plants and Flowers opened September 1, and continued four days, and was one of the best ever seen in the two halls. The Lower Hall was devoted to a large display of cut flowers; large collections of herbaceous plants; berry-bearing plants, from the Arnold Arboretum; Liliums, Asters, Zinnias, Cannas, and Dahlias. On the stairway leading to the Upper Hall was a large collection of coniferous trees of dwarf form, and other evergreens in pots. On entering the Upper Hall, in the centre was seen a fine display of Alocasias, *Cycas revoluta* (Sago Palm), *Pandanus utilis* (Screw Pine), and the beautiful *Araucaria excelsa*. On either side were groups of choice Dracænas, Crotons, and Caladiums, with their brilliant colorings; the beautiful *Asparagus plumosus*, the light and feathery Adiantums, the Lycopods, the Palms, Tree Ferns, and the Flax Plant of New Zealand. The tanks of Water Lilies attracted much attention. A single leaf of the *Victoria regia*, nearly six feet across, was floating on the water, with a flower over a foot in diameter. A novel feature of this exhibition was the display of floral decoration of mantel-pieces.

The Annual Exhibition of Fruits and Vegetables opened September 15, and continued three days. It compared favorably with the displays made in former years. The Upper Hall was entirely occupied by fruit, and the collection was all classified, which added very much to the interest of the exhibition. The Massachusetts Agricultural College made a display of nearly one hundred varieties of native Grapes, all carefully arranged. On a table near by was a collection of grapes, with vines and foliage, showing the difference between those that had been sprayed and those not so treated, and giving evidence of the beneficial effects of this operation. The Arnold Arboretum made an exhibit of one hundred and six varieties of fruits (in the botanical sense of the term) from all parts of the world. The Apples, Pears, and Peaches exhibited were very fine. The Lower Hall was devoted to vegetables. Here, as in the Upper Hall, everything on exhibition was classified, so that all the specimens of the same variety were placed side by side. They were all well grown.

The Chrysanthemum Show opened November 10, and continued four days. Perhaps never before, in the history of the Massachu-

setts Horticultural Society, has so attractive an exhibition been seen in Boston as the Chrysanthemum Show of 1891. The plants were shown in the Upper Hall. Many were of large size, some being seven and one-half feet in height and five feet in diameter, and all were in fine flower and good foliage. A scene of golden beauty was presented in the Lower Hall, which was filled with cut flowers. Yellow is the prevailing color in the Chrysanthemum, but here were the clear pink, the cream, purple, bronze, the dark red, the chrome-yellow, and the beautiful white Mrs. Alpheus Hardy. Many of the single flowers, for large size and fine form and color, excelled anything ever before seen in Boston, and it is questioned if their equals had ever been seen in this country. A large number of choice Seedlings were shown for the first time. The Chrysanthemum Show of 1891 excelled all previous exhibitions, in large size, and fine quality of cut flowers, and it is not safe to predict what the Chrysanthemum of the future will be. Single flowers of 1891 were as large as the crown of one's hat.

GEORGE CRUICKSHANKS,
Delegate.

REPORT

OF THE

COMMITTEE ON THE LIBRARY,

FOR THE YEAR 1891.

The reports of this Committee are of necessity much the same year after year. We always think it proper to say that we have not endangered our possession of the Stickney Fund by non-compliance with the conditions under which we hold it, and that we have had use for every cent of the Society's appropriation. These statements are as true of the year 1891 as of any of its predecessors.

Catalogues and Indexes which convert a collection of books into a Library are like the discipline and organization which make an army out of a mob, and we are glad to say that the Catalogues of Plates and Books have made the usual advance. We cannot at this time give even an estimate of the work done upon the former up to the present time; we hope that a pretty accurate statement may be presented in the course of a few weeks. Suffice it, at present, to say that we believe we are getting a very valuable return for the money spent upon it. The latter has been brought so far along that all the books upon the lower floor are now entered upon it.

When this room was remodelled and the gallery provided, we dropped, temporarily, our annual cry, "More room, more room," and we will not yet resume it; we will only say that many of the rows of books you see about you have other rows behind them; a highly condemnable state of affairs.

As usual, a complete list of library accessions will be appended to this Report, which will show that the gifts and purchases of the present year have been exceedingly valuable; especial mention should be made of Professor Sargent's "Silva of North America" and Tussac's "Flora of the Antilles." Our copy of the latter is probably the only one in this country.

For the Committee,

W. E. Endicott,
Chairman.

LIBRARY ACCESSIONS.

The measurements of the books in the following lists are in inches and tenths of an inch, giving first the height, next the thickness, and lastly the width. When a pamphlet possesses no measurable thickness the place of that dimension is supplied by a dash.

Books Purchased.

Royal Horticultural Society, Journal of the. Edited by Samuel Jennings, F.L.S., F.R.G.S. Vol. V. Part 7. March, 1879. Blue-gray paper, 8.4×.1×5.4, pp. lxxvii–cxii, (4), 141-148, (8). London: 1879.

Bailey, L. H. The Nursery-Book. A Complete Guide to the Multiplication and Pollination of Plants. Dark green cloth, 7.5×.7×5.4, pp. 304; 106 cuts. New York: 1891.

Horticultural Directory and Year Book for 1891. Thirty-second year of publication. Blue-green paper, 7.1×1.×4.8, pp. 464. London: (1891.)

Hibberd, Shirley. The Garden Oracle and Illustrated Floricultural Year Book. 1891. 33d year. Boards, green, 7.×.6×4.7, pp. 180; 2 colored plates. London: (1891.)

Howe, Walter, *Editor*. The Garden as considered in Literature by certain polite writers, with a critical essay by Walter Howe. Half dark blue cloth, 5.7×.7×3.8, pp. iv, 309; portrait. New York and London: (1890.)

D'Ombrain, Rev. H. Honywood, *Editor*. The Rosarian's Year Book for 1891. Boards, blue-gray, 7.1×.4×5.3, pp. (6), 72; portrait. London: 1891. Also the volumes for 1879 and 1881 towards completing the set.

Heath, John. A Practical Treatise on Violet Culture. Pamphlet, lilac, 7.1×—×4.1, pp. 33. Kendal: 1889.

Morton, James. Chrysanthemum Culture for America. A Book about Chrysanthemums, their History, Classification, and Care. Olive-green cloth, 8.×.5×5.6, pp. 126; cuts. New York: 1891.

Salter, John, F.R.H.S. The Chrysanthemum; its history and culture. Red cloth, 9.×.5×5.8, pp. xi, 75; 2 colored and 8 plain plates; cuts. London: 1865.

Rancourt de Mimérand, Henry de. Le Chrysanthème; origine — classification — culture. Deuxième édition, précédée d'une Lettre de M. Maxime de la Rocheterie. [Also] Notice sur le Myosotis. Pamphlet, blue-gray, 8.5×—×5.5, pp. 25. Orleans: 1891.

Warner, Robert, F.L.S., F.R.H.S., Henry Williams, F.L.S., F.R.H.S., and William Hugh Gower, F.R.H.S. The Orchid Album, comprising colored figures and descriptions of new, rare, and beautiful

Orchidaceous Plants. Vol. 9, parts 105–108, and Vol. 10, part 109. Half green morocco, 12.4×1.2×10., colored plates 417–436, and descriptive text. London: [1890, 1891.]

Sander, F. Reichenbachia. — Orchids illustrated and described. Second series. Vol. 1, parts 3–6. Half green morocco, 21.6×2.×19.6, pp. 19–52; colored plates 9–24. St. Albans, London, Berlin, Paris, New York: [1891.]

Linden, J., Lucien Linden, Em. Rodigas, and R. A. Rolfe. Lindenia. — Iconography of Orchids. Vol. 6, Parts 4–12. (French edition.) pp. 29–102; colored plates 253–288. Vol. 2, Parts 7–9. (American edition.) pp. 28; plates 289–300. Ghent: (1890, 1891.)

Watson, W., Assistant Curator, Royal Gardens, Kew, assisted by W. Bean, Foreman, Royal Gardens. Orchids: their Culture and Management, with Descriptions of all the kinds in general cultivation. Olive-green cloth, 8.6×2.3×6.2, pp. xi, 554; 8 colored and 44 plain plates, 117 cuts. London: 1890.

Veitch, James, & Sons. Manual of Orchidaceous Plants cultivated under glass in Great Britain. *Part V.* Masdevallia, Pleurothallus, Cryptophoranthus, Restrepia, Arpophyllum and Platyclinis. Pamphlet, gray, 9.9×.3×6.1, pp. 64; 6 plates, 15 cuts. London: 1889. *Part VI.* Cœlogyne, Epidendrum, Spathoglottis, Phaius, Thunia, Chysis, Pleione, Calanthe, Diacrium, Nanodes, etc., etc. Pamphlet, gray, 9.8×.5×6.2, pp. 134; 11 plates, 26 cuts. London: 1890. *Part VII.* Phalænopsis, Aerides, Vanda, etc. Gray paper, 10.×.5 ×6.2, pp. 142; 21 plates, cuts, map. London: 1891.

Webster, A. D., F.R.S.E. British Orchids: containing an exhaustive description of each species, to which are added chapters on Structure and other peculiarities, Cultivation, Fertilization, Classification and Distribution. Green cloth, 7.4×.5×5.1, pp. (ii), 103; 7 plates. Bangor: [1886.]

Kerner, A. Die hybriden Orchideen der österreichischen Flora. (Aus Abh. der zool. bot. Ges. in Wien.) Pamphlet, 8.8×.1×5.8, pp. 203–236; plates ii–vii. [Innspruck]: 1865.

Langford, T. Plain and Full Instructions to raise all Sorts of Fruit-Trees that prosper in England; etc., etc. Second edition, revised and enlarged. Full calf, 7.8×.9×4.8, pp. (29), 220, (6); 2 plates. London: 1699.

Barron, Archibald F. Vines and Vine Culture. New edition, revised and enlarged. Brown cloth, 8.4×.7×5.7, pp. xv, 189; cuts 53, and xxx. London: 1887.

Crozier, A. A. The Cauliflower. Brown cloth, 7.5×.6×5.2, pp. 230; frontispiece. Ann Arbor, Michigan: 1891.

Greiner, T. The New Onion Culture. Terra-cotta paper, 7.4×.2×4.9, pp. 62; cuts. (Buffalo, N.Y.): January, 1891.

Carman, Elbert S. The New Potato Culture. Maroon cloth, 8.2×.7×5.8, pp. 165; 15 cuts, 1 plate. New York: 1891.

Falconer, William. Mushrooms: How to Grow Them. A Practical Treatise

on Mushroom Culture for Profit and Pleasure. Claret-brown cloth, 7.5×.7×5.2, pp. 172; 29 cuts. New York: 1891.

Parsons, Samuel, Jr. Landscape Gardening. Half gray-green cloth, 10.1×1.2×7.5, pp. 329; plates and cuts. New York and London: 1891.

Milner, Henry Ernest, F.L.S., Assoc. M. Inst. C. E. The Art and Practice of Landscape Gardening. Dark olive-green cloth, 12.6×.9×9.8, pp. 116; 10 etchings, 10 colored and two plain plans. London: 1890.

Dame, Lorin L. Typical Elms and other Trees of Massachusetts. Introductory note by Oliver Wendell Holmes. Plates by Henry Brooks. Dark green cloth, 14.4×1.8×11.8, pp. 89; 58 plates, reproduced by the photo-gelatine process. Boston: 1890.

Sargent, Charles Sprague, Director of the Arnold Arboretum of Harvard University. The Silva of North America. A Description of the Trees which grow naturally in North America exclusive of Mexico. Illustrated with Figures and Analyses drawn from Nature by Charles Edward Faxon, and engraved by Philibert and Eugène Picart. *Volume I.* Magnoliaceæ — Ilicineæ. Boards, gray, 14.8×1.7×11.6, pp. xiii, 119; 50 plates. *Volume II.* Cyrillaceæ — Sapindaceæ. pp. (vii), 117; plates 51–97. Boston and New York: 1891.

Newhall, Charles S. The Leaf-Collector's Handbook and Herbarium. An aid in the preservation and in the classification of specimen leaves of the Trees of North-eastern America. Olive-green cloth, 9.4×1.8×6.6, pp. xv, and 216 pages of cuts with space for pressed specimens. New York and London: 1891.

Mayr, Heinrich. Die Waldungen von Nordamerika ihre Holzarten, deren Anbaufähigkeit und forstlicher Werth für Europa im Allgemeinen und Deutschland insbesonders. Half black morocco, 9.4×1.5×7., pp. xxi, 448; frontispiece, 12 plates, 23 cuts. München: 1890.

Koch, Karl. Hortus Dendrologicus. Verzeichniss der Bäume, Sträucher und Halbsträucher, die in Europa, Nord- und Mittelasien, im Himalaya und in Nordamerika wild wachsen und möglicher Weise in Mitteleuropa im Freien ausdauern; etc. Boards, marbled brown, 9.×.7×6.4, pp. xvi, 354. Berlin: 1853.

Wimmer, Friedrich. Salices Europeae. Half dark green cloth, 8.8×1.×5.9, pp. xcii, 286. Vratislaviæ: 1866.

Zuccarini, Joseph Gerhard. Beiträge zur Morphologie der Coniferen. [Abhandlungen d. II. Cl. d. Ak. d. Wiss. III. Bd. Abth. III.] Unbound, pp. 753–805, (1); 5 plates.

Schlich, William, Ph.D. A Manual of Forestry. Vol. I. The Utility of Forests, and Fundamental Principles of Sylviculture. Green cloth, 8.9×.9×6., pp. xv, 232. London: 1889.

Stephens, Henry, F.R.S.E. The Book of the Farm, detailing the labours of the farmer, farm-steward, ploughman, etc., etc. Fourth edition, revised and in great part rewritten by James Macdonald. 3 vols. Half tan-colored morocco, 9.7×1.5×7. (I.) pp. xvii, 532; frontispiece, 13 plates, 239 cuts. (II.) pp. ix, 521; plates 14–27, 456 cuts. (III.) pp. xii, 526; plates 28–38, 1–8. London: 1891.

Beeton, ———. All About Country Life; being a Dictionary of Rural Avocations and of knowledge necessary to the Management of the Farm, the Stable, the Stockyard, and a Gentleman's Out of Town Residence and Property. Arranged in Alphabetical Order, etc. Brown cloth, 7.6×1.1×5.3, pp. 313; cuts. London: n. d.

Agricultural Science. Charles S. Plumb, *Editor*. Vols. 1–5. Unbound, 10.×1.3×6.3, pp. 297, 351, 377, 362, and 303; plates. Knoxville, Tenn.: 1887–1891.

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Pittonia. A Series of Papers relating to Botany and Botanists. By Edward L. Greene. Vol. I. 1887-1889. Pamphlet, gray, 9.6×.9×6.2., pp. (iv), 311, xiv. Berkeley, Cal.: 1887-1889. Professor E. L. Greene.

Edinburgh Botanical Society. Transactions and Proceedings. Volume XVIII. Pamphlet, buff, 8.7×1.3×5.5, pp. vi, 504; 6 plates, colored and plain. Edinburgh: 1891.

November, 1890—March, 1891. Session LV. Two pamphlets, buff, 9.×.1×5.7, pp. 87; 1 plate. Edinburgh: 1891. The Society.

Luxembourg, La Société Botanique du Grand Duché de, Receuil des Mémoires et des Travaux publiés par. Pamphlet, gray, 9.3×.3×6.2, pp. 152; 3 plates. Luxembourg: 1890. The Society.

Missouri Botanical Garden. (First Annual) Report. — Biographical Sketch of Henry Shaw; Conveyance to Trustees; Will of Henry Shaw; Deed to Washington University; School of Botany: — *a.* Inaugural Exercises and Address, *b.* Report of the Professor in Charge; Missouri Botanical Garden: — *a.* First Annual Report of the Director for 1889, *b.* Flower Sermon, *c.* Annual Banquet. Olive-green cloth, 9.8×.9×6.6, pp. 167; 13 plates, 5 plans. [St. Louis: 1890.] William Trelease, Director.

——— ——— ——. Second Annual Report. (1891.) 1. Reports for the year 1890. 2. Anniversary Publications. 3. Scientific Papers. —

Revision of the North American Species of Epilobium. By William Trelease. Dark olive-green cloth, 9.8×.1×6.7, pp. 117; 5 and 48 plates, and map (5 sheets). St. Louis: 1891. William Trelease, Director.

Joly, Charles. Note sur le jardin botanique de Saint-Louis. Pamphlet, blue-gray, 8.5×—×5.4, pp. 3. [Paris: 1891.] [Extrait du Journal de la Société nationale d'Horticulture de France, cahier de Fevrier 1891, pages 83 à 85.] The Author.

Kew Royal Botanic Gardens. Bulletin of Miscellaneous Information, 1890. Boards, half green cloth, 8.6×1.×6., pp. ii, 278, 74; 2 plates. London: 1890. W. T. Thiselton Dyer, Director.

Trelease, William. A Revision of the American Species of Epilobium occurring north of Mexico. [From the Second Annual Report of the Missouri Botanical Garden.] Pamphlet, yellow, 8.9×.5×6., pp., 69–117; 48 plates. Issued April 22, 1891. The Author.

Schniffner, Dr. Victor. Monographia Hellebororum. Kritische Beschreibung aller bischer bekannt gewordenen Formen der Gattung Helleborus. [Nova Acta der Ksl. Leop.-Carol. Deutschen Akademie der Naturforscher, Bd. LVI. Nr. 1.] Pamphlet, plum-colored cloth back, 12.7×.5×9.8, pp. 198; 1 plain and 8 colored plates. Halle: 1890. Dr. C. H. Knoblauch.

United States Department of Agriculture. Office of Experiment Stations.

Experiment Station Record. Vol. 2, Nos. 5–12, December, 1890–July, 1891, pp. 185–853. Vol. 3, Nos. 1–4, August–November, 1891, pp. 274. 12 pamphlets, blue-gray, 8.9×.1–.4×5.7. Washington: 1890, 1891.

Experiment Station Bulletin. No. 2. Digest of the Annual Reports of the Agricultural Experiment Stations in the United States for 1888. Part 2. Pamphlet, tea, 9.×.3×5.7, pp. 173. Washington: 1891.

Farmers' Bulletin. No. 3. Culture of the Sugar Beet. pp. 24; cuts. No. 4. Fungous Diseases of the Grape and their treatment. pp. 12. 2 pamphlets, 9.×—×5.7. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

Agricultural Experiment Station Bulletins and Annual Reports have been received from the Stations in the United States and Canada.

United States Department of Agriculture. Reports of the Statistician. New Series.

Nos. 80–90. On the Crops of the year; Numbers and Values of Farm Animals; Distribution and Consumption of Corn and Wheat; Condition of Winter Grain; Condition of Farm Animals; Progress of Cotton Planting; Acreage of Wheat and Cotton; Condition of Cereal Crops; Area of Corn, Potatoes, and Tobacco; Condition of Growing Crops; Condition of Crops in America and Europe; Yield of Grain per Acre; Yield of Crops per Acre; Freight Rates of Transportation Companies. 11 pamphlets, tea, 9.×.1×5.8. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

United States Department of Agriculture. Album of Agricultural Statistics of the United States. Results of Official Statistical Investigation. By J. R. Dodge, Statistician. Boards, gray, 12.6×.4×10., pp. 8; 16 colored maps. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

——— ——— ——— ———. Album of Agricultural Graphics. Values per Acre of Crops of the United States, etc. By J. R. Dodge, Statistician. Pamphlet, gray, black cloth back, 12.3×.1×18.5, pp. (6); 10 colored maps. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

——— ——— ——— ———. Division of Chemistry. Bulletin No. 29. Record of Experiments with Sorghum in 1890. By Harvey W. Wiley, Chemist of the U. S. Department of Agriculture. Pamphlet, tea, 8.9×.2×5.7, pp. 125; 1 chart. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

——— ——— ——— ———. Division of Chemistry. Bulletin No. 30. Experiments with Sugar Beets in 1890. By Harvey W. Wiley, Chemist. Pamphlet, tea, 8.9×.1×5.8, pp. 93. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

——— ——— ——— ———. Special Report of Chief of the Weather Bureau to the Secretary of Agriculture. 1891. Pamphlet, tea, 8.9×—×5.7, pp. 26. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

——— ——— ——— ———. Bureau of Animal Industry. Special Report on the Cause and Prevention of Swine Plague. Conducted under the direction of Dr. D. E. Salmon, Chief of the Bureau of Animal Industry, by Theobald Smith, Ph.B., M.D. Black cloth, 9.2×.6×6.1, pp. 166; 12 plates, colored and plain. Washington: 1891. Hon. J. M. Rusk, Secretary of Agriculture.

Census Bulletin. No. 117. October 10, 1891. Live Stock on Ranges. Pamphlet, 10.3×—×7.9, pp. 12. (Washington: 1891.) Robert P. Porter, Superintendent of Census.

Birds of Massachusetts. Report of the State Board of Agriculture to the House of Representatives, under the resolution of May 28, 1890. Pamphlet, light blue, 9.1×—×5.7, pp. 9. Boston: 1891. Francis H. Appleton.

Bryant, J. E. Agriculture in Public Schools. An address delivered before the members of the Ontario Teachers' Association . . . 1890. Pamphlet, 7.8×—×5.1, pp. 28. Toronto: 1891.

Massachusetts Agricultural College, Twenty-eighth Annual Report, January, 1891. Pamphlet, tea, 9.1×.1×5.8, pp. 69; 3 plates. Boston: 1891. H. H. Goodell, President.

Boston Asylum and Farm School for Indigent Boys, Thompson's Island. Report of the Board of Managers. 1891. Pamphlet, terra-cotta, 9.×—×5.8, pp. 20. Boston: (1891.) Charles H. Bradley, Superintendent.

Pennsylvania State College. Annual Report, for the year 1889. Part I—

Departments of Instruction. Part II — Agricultural Experiment Station. Black cloth, 9.6×1.×6.3, pp. 57, 282; 15 plates, charts, etc. Harrisburg: 1890. H. P. Armsby, Director of the Experiment Station.

Pennsylvania State College, Instruction in Agriculture at the. Pamphlet, 8.1×—×5.2, pp. 14. State College: 1891. The College.

Bowdoin College and the Medical School of Maine, Catalogue of. 1891–92. Pamphlet, terra-cotta, 8.9×.1×6., pp. 64. Brunswick: 1891. Rev. William DeWitt Hyde, President.

Yale University. Report of the President, for the year ending December 31, 1890. Pamphlet, gray, 8.7×.1×5.8, pp. 79. [New Haven]: 1891. The University.

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Wisconsin, University of. Seventh Annual Announcement of the Short Course in Agriculture. Jan. 4 to March 25, 1892. Pamphlet, 8.9×—×6., pp. 4. (Madison: 1891.) The University.

Massachusetts Institute of Technology, Boston. Annual Catalogue. 1890–1891. Pamphlet, drab, 9.1×.5×5.9, pp. 219. Cambridge: 1890. The Institute.

United States Bureau of Education. Publications, from 1867–1890, with Subject-Index. [Reprint of Chapter XXXV of the Report of the Commissioner of Education for 1888–89.] Pamphlet, blue, 9.×.2×5.7, pp. 1453–1551. Washington: 1891. Hon. William T. Harris, Commissioner.

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Free Public Library Commission of Massachusetts. First Report, 1891. Terra-cotta cloth, 9.2×1.×6., pp. xii, 290; plates. Boston: 1891. Francis H. Appleton.

Lawrence (Mass.) Free Public Library. Nineteenth Annual Report of the Board of Trustees and Report of the Librarian. 1890. Pamphlet, fawn, 9.×—×5.9, pp. 30. Lawrence: 1891. Frederick H. Hedge, Librarian.

Salem (Mass.) Public Library. Second Report of the Trustees, December, 1890. Pamphlet, olive, 9.3×.1×6.7, pp. 20. Salem: 1891. The Trustees.

Newberry Library. Proceedings of the Trustees, for the year ending January 5, 1891. Pamphlet, gray, 9.1×.1×6., pp. 45. Chicago: 1891. The Trustees.

St. Louis Public Library. Annual Report, 1889–90. Pamphlet, light blue, 8.9×.1×6., pp. 42. St. Louis: 1891. Frederick M. Crunden, Librarian.

American Society of Microscopists. General Index to the Proceedings, including the Convention of 1878 to the end of 1890. Pamphlet, 9.2×.1×5.9, pp. 44. [n. d.]

New York Microscopical Society. Journal. Vol. 7, 1891. 4 pamphlets, fawn, 9.3×.1×5.9, pp. 141; plates 26–28, cuts. New York: 1891. The Society.

Ottawa Naturalist. The Transactions of the Ottawa Field Naturalists' Club. Vol. 4, Nos. 10–12, January to March, 1891. pp. 165–226. Vol. 5, Nos. 1–8, April to December, 1891. pp. 160. Ottawa: 1891. W. A. D. Lees, Librarian.

Boston Society of Natural History. Proceedings. Vol. XXV, Part I, May, 1890 — Dec., 1890. Pamphlet, tea, 9.6×.5×6.2, pp. 182; 6 plates. Boston: 1891. Vol. XXV, Part II, January, 1891 — May, 1891. Pamphlet, tea, 9.6×.4×6.2, pp. 183–304; plates 7–9. Boston: 1891. The Society.

Essex Institute. Bulletin. Vol. 22, Nos. 4–6, and 10–12; plates 1 and 2. Vol. 23, Nos. 4–6; plates 1–3. Pamphlets, 9.7×.2×6.1. Salem: 1890, 1891. The Institute.

Meriden (Conn.) Scientific Association. Proceedings and Transactions, Vol. IV, 1889–1890. Pamphlet, fawn, 8.9×.4×6., pp. 90; frontispiece, cuts, and map. Meriden: 1891. Charles H. S. Davis, M.D., Secretary.

Elisha Mitchell Scientific Society. Journal. Vol. VII—Part second, July–December, 1890. Pamphlet, light blue, 8.9×.1×5.8, pp. 57–132; plate and cuts. Raleigh: 1891.

Vol. VIII., Part first, January–June, 1891. Pamphlet, blue, 8.9×.1×5.8, pp. 27. Raleigh: 1891. F. P. Venable, Secretary and Treasurer.

Kansas Academy of Science. Transactions of the 22d and 23d Meetings, 1889, 1890, with the Reports of the Secretary. Vol. XII. Claret-brown cloth, 9.×.6×6.3, pp. 189; plates and cuts. Topeka: 1890. B. B. Smith, Librarian.

Leopoldina. Amtliches Organ der Kaiserlichen Leopoldino-Carolinischen Deutschen Akademie der Naturforscher. Herausgegeben unter Mitwirkung der Sektionsvorstænde von dem Praesidenten Dr. C. H. Knoblauch. Sechsundzwanzigstes heft. — Jahrgang 1890. Pamphlet, light blue, 12.5×.3×9.7, pp. (iv), 220. Halle: 1890. The President.

United States Consular Reports. Nos. 120–132, September, 1890, to September, 1891, inclusive. 13 pamphlets, blue, 9.×.4×5.7. Washington: 1890, 1891. Hon. James G. Blaine, Secretary of State.

——— ——— ——— ———. Special Reports.

Vol. II. Refrigerators and Food Preservation in Foreign Countries. — European Emigration. — Olive Culture in the Alpes Mari-

times. — Beet Sugar Industry and Flax Cultivation in Foreign Countries. 4 pamphlets, terra-cotta, 9.×.1–.5×5.7, pp. 631; plates, cuts, chart. Washington: 1890, 1891.

Vol. III. Streets and Highways in Foreign Countries. Pamphlet, terra-cotta, 9.×1.3×5.6, pp. 592; cuts and plates. Washington: 1891.

Vol. IV. Port Regulations in Foreign Countries. Pamphlet, terra-cotta, 9.×1.3×5.6, pp. 592; cuts and plates. Washington: 1891. Hon. James G. Blaine, Secretary of State.

Massachusetts, Atlas of. From Topographical Surveys made in Co-operation by the United States Geological Survey and the Commissioners of the Commonwealth, 1884–1888. Half black morocco, 21.8×.7×17.7, 54 sheets of maps. Boston: 1890. The Commonwealth.

Massachusetts Bureau of Statistics of Labor, Twenty-first Annual Report, March, 1891. Black cloth, 9.×1.4×6., pp. xxxi, 630. Boston: 1891. Horace G. Wadlin, Chief of the Bureau.

Massachusetts Charitable Mechanic Association. Report of the Seventeenth Triennial Exhibition, held in Boston, October and November, 1890. Pamphlet, gray, 8.9×.6×5.8, pp. 292; plates and cuts. Boston: 1891. The Association.

——— ——— ———. Proceedings of the Annual Meeting, January 21, 1891. Pamphlet, buff, 8.8×.2×5.8, pp. 79. Boston: 1891. Alfred Bicknell, Secretary.

Total Eclipse of the Sun, January 1, 1889. A Report of the Observations made by the Washington University Eclipse Party at Norman, California. Published by the Academy of Science of St. Louis. Pamphlet, tea, 11.7×.2×9.8, pp. 39; 7 plates. Cambridge: 1891. The Academy of Science of St. Louis.

North Shore of Massachusetts Bay, The. Thirteenth edition. Pamphlet, yellow, 7.×.4×4.6, pp. 119; cuts, map. Salem: 1891. Benjamin D. Hill.

New England Historic-Genealogical Society. Proceedings at the Annual Meeting, 7 January 1891. Pamphlet, light drab, 9.7×.1×6.3, pp. 38. Boston: 1891. Francis H. Brown, Corresponding Secretary.

Kansas State Historical Society. Seventh Biennial Report of the Board of Directors, for the period commencing November 21, 1888, and ending November 18, 1890. Pamphlet, olive-green, 9.1×.2×6., pp. 124. Topeka: 1891. The Secretary.

Wisconsin State Historical Society. Proceedings of the Thirty-eighth Annual Meeting, held January 15, 1891. With the Thirty-seventh Annual Report of the Executive Committee, etc. Pamphlet, blue-gray, 9.×.3×5.9, pp. 96. Madison: 1891. Daniel S. Durrie, Librarian.

Periodicals Purchased.

English. — Gardeners' Chronicle.
Gardeners' Magazine.
Journal of Horticulture and Cottage Gardener.
The Garden.
Gardening Illustrated.
Horticultural Times and Covent Garden Gazette.
Curtis's Botanical Magazine.
Journal of Botany.
Grevillea.

French. — Revue Horticole.
Revue des Eaux et Forêts.
Journal des Roses.

Belgian. — Illustration Horticole.
Revue de l'Horticulture Belge et Étrangère.
Journal des Orchidées.

German. — Botanische Zeitung.

American. — Country Gentleman.
Garden and Forest.
Meehan's Monthly.
Agricultural Science.
American Naturalist.
American Journal of Science.
Zoe.

Periodicals Received in Exchange.

Canadian Horticulturist.
American Garden.
Popular Gardening.
Vick's Illustrated Monthly Magazine.
Horticultural Art Journal.
Fruits and Flowers.
Wiener Illustrirte Garten-Zeitung.
Success with Flowers.
American Florist.
Florists' Exchange.
Orchard and Garden.
Green's Fruit Grower.
Seed-Time and Harvest.
Forest Leaves.
Botanical Gazette.
Pittonia.
The Modern Cemetery.
West American Scientist.
Maine Farmer.

New England Farmer.
Massachusetts Ploughman.
American Cultivator.
New England Homestead.
Our Country Home.
American Agriculturist.
Rural New-Yorker.
American Rural Home.
Metropolitan and Rural Home.
Farm Journal.
National Stockman and Farmer.
Germantown Telegraph.
Maryland Farmer.
Florida Dispatch, Farmer and Fruit Grower.
Prairie Farmer.
Orange Judd Farmer.
The Industrialist.
Pacific Rural Press.
Cottage Hearth.
Boston Daily Advertiser.
Boston Morning Journal.
Boston Post.
Boston Daily Globe.
Boston Evening Transcript.
Boston Daily Evening Traveller.
Boston Commonwealth.
Boston Times.
New York Weekly World.
Jeffersonian Republican.

REPORT

OF THE

SECRETARY AND LIBRARIAN,

FOR THE YEAR 1891.

At the time of my last report, I stated that the second part of the Transactions for 1889 was in the hands of the printer and would be pushed to completion as speedily as possible, which was done. The Committee on Publication then directed the publication of Part I., 1891, before that of Part II., 1890. The best assistance that could be found was accordingly secured, and it was prepared and placed in the hands of the printer at such a date as authorized the expectation that if he had done his part promptly, and the writers of the different papers contained in it had returned their proofs promptly, it would have been ready some months ago. Neither of these was done, however, and, owing to these two most discouraging causes, the time of its appearance has been, to my great disappointment, delayed, and for months I have been obliged to spend in pushing printer and authors, time and strength which could have been much better employed. The Publication Committee directed that a sufficient number of copies should be printed to send one to every member of the Society, and I trust that such as have not already received them will find a copy awaiting them when they return to their homes. It will be seen that the number of pages of letter press is a little larger, and that it is much more fully illustrated, than ever before. And here I may remark that our Transactions during the last seven years have averaged one-third larger than previous to that time. The scientific and technical character of our publications makes their editing much more difficult than ordinary literature, but great care is always given to have them correct in every particular, and it is this care, added to the character of the papers contained in them, which has given to them an

acknowledged superiority over the publications of any other Horticultural Society in this country.

The greater part of Part II., 1890, is already in type and it will soon be printed.

The duties of member and Secretary of the Committee on the Revision of the Constitution and By-Laws — much needed, since it had not been thoroughly done before for sixteen years — added very considerably to the work in this department, as did also the preparation of the members' diplomas, which had been falling in arrears for more than ten years.

In regard to the Library, I would say that at the date of my last report the greater part of the work of changing the shelf numbers in the books was done, and this was soon after completed. Work was immediately begun on the Card Catalogue, and I have now to report that all the books in the book-cases on the floor have been catalogued, and those in the gallery and the ladder-cases in the smaller room are yet to be done. This will not require so much time as those on the floor, for two reasons — the total number is less, and they comprise a much larger proportion of sets of many volumes. The cataloguer's time has been strictly confined to that work, but the direction of the work has been a very considerable tax on the time of those permanently employed here. When all the cards are written, it will be necessary that they should be gone over and verified before being alphabetically arranged. In the course of this work many imperfections in the books have been discovered and remedied as far as possible.

The additions to the Library have been such that the shelves are gradually becoming more crowded, and I fear that it will be difficult to continue the classification by subjects for any length of time. Among the most important additions to the Library may be mentioned the first two volumes of Professor Sargent's great work on the trees of North America, and the beautiful work by Messrs. Dame and Brooks on the Typical Elms and other trees of Massachusetts, both of which testify to the increased interest existing here in Arboriculture; also Jacquin's "Icones Plantarum Rariorum" and Humboldt and Bonpland's "Nova Genera et Species Plantarum," in seven volumes.

The Library Committee have this year directed that all the agricultural newspapers received here, which had previously been otherwise disposed of, should be preserved and added to the

Library. This makes another permanent addition to the work of those in charge of the Library, but I only regret that this course had not been taken many years earlier.

In conclusion, I wish again to make grateful acknowledgment to the Committee on Publication and Discussion and the Committee on the Library for the hearty manner in which I have been supported. Much the greater part of the work done in this room is under the direction of these Committees, and they fully understand and appreciate the difficulties by which it is surrounded.

ROBERT MANNING,
Secretary and Librarian.

TREASURER'S REPORT,

FOR THE YEAR 1891.

MASSACHUSETTS HORTICULTURAL SOCIETY, *in account current to December 31, 1891, with* CHARLES E. RICHARDSON, *Treasurer.*

1891.	DR.		
Dec. 31.	To amount paid on account of the Library during 1891, viz.:		
	For books, periodicals, and binding .	$317 33	
	Income of Josiah Stickney Fund, expended for books	700 00	
			$1,017 33
	To amount paid from J. Stickney Fund in excess of authorized amount		33 01
	To amount paid for Furniture and Exhibition Ware in 1891		808 66
	To amount paid on Mortgage, March 21, 1891		14,000 00
	To Interest on Funds for Prizes, credited below		1,892 72
	To Prizes, awarded in 1890 and paid during 1891, as follows:		
	For Plants and Flowers	$3,187 29	
	" Fruits	1,661 88	
	" Vegetables	886 20	
	" Gardens and Greenhouses . .	135 00	
	" Hunnewell Rhododendron prizes .	105 00	
	" Alexander Dickson & Son, special prizes	27 50	
	" William H. Spooner, special prize,	10 00	
	" Marshall B. Faxon, special prizes,	10 00	
			6,022 87
	To amount paid on account of Window Gardening Committee		178 40
	Amount carried over		$23,952 99

Amount brought over				$23,952 99
To amount paid for salaries of Secretary and Assistant, and Treasurer,	$3,300 00			
To amount paid for salaries of Committees	918 00			
		$4,218 00		
To amount paid for extra services in the Library . . .		756 15		
" " Work on Card Catalogue . . .		22 50		
" " Committee on Publication and Discussion . . .		229 00		
" " Stationery, Printing, and Postage . .		1,444 92		
" " Heating . . .		537 33		
" " Labor, including Janitor and Fireman .		1,586 48		
" " Taxes during 1891 .		2,469 60		
" " Insurance . .		487 40		
" " City Water Rates .		83 80		
" " Committee of Arrangements . .		299 55		
" " Repairs on Building,		1,628 25		
" " Interest on Mortgage,		318 75		
" " Lighting . . .		1,421 34		
" " Incidentals . .		602 15		
				16,105 22
				$40,058 21
To Balance of Cash on hand December 31, 1891				16,125 82
				$56,184 03
1891.		Cr.		
Jan. 1. By Balance from account rendered December 31, 1890				$15,222 08
Dec. 31. By Income from Building in 1891:				
Rent of Stores . . .	$17,400 00			
" Halls . . .	7,335 80			
		$24,735 80		
By Income from Mount Auburn Cemetery in 1891		5,312 32		
By Receipts from Annual Exhibitions, gross amount . . .	$3,603 07			
Less Expenses . . .	1,555 28			
		2,047 79		
Amounts carried over		$32,095 91		$15,222 08

Amounts brought over		$32,095 91	$15,222 08
By Receipts from Admissions and Assessments of Members		1,030 00	
By Receipts from Massachusetts State Bounty		600 00	
By Interest received on Bonds	$229 11		
By Interest received on Deposits in Bank . . .	136 71		
		365 82	
By Receipts from sale of 5% and 4% C. B. & Q. R.R., held in Sinking-Fund . .		4,925 00	
By Receipts from sale of History of the Society		5 00	
By Receipts from William H. Spooner, for Special Prize, 1890		10 00	
By Receipts from Alexander Dickson & Son, for Special Prizes, 1890 . .		27 50	
By Receipts from Marshall B. Faxon, for Special Prizes, 1890		10 00	
By Interest credited the following Funds, against charge above:			
Samuel Appleton Fund, $1,000, at 5%	$50 00		
John A. Lowell Fund, $1,000, at 5%	50 00		
Theodore Lyman Fund, $11,000, at 5%	550 00		
Josiah Bradlee Fund, $1,000, at 5%	50 00		
Benjamin V. French Fund, $500, at 5%	25 00		
H. H. Hunnewell Fund, $4,000, at 5%	200 00		
William J. Walker Fund, $2,354.43, at 5% . . .	117 72		
Levi Whitcomb Fund, $500, at 5%	25 00		
Benjamin B. Davis Fund, $500, at 5%	25 00		
Marshall P. Wilder Fund, $1,000, at 5%	50 00		
John Lewis Russell Fund, $1,000, at 5%	50 00		
Amounts carried over . . .	$1,192 72	$39,069 23	$15,222 08

Amounts brought over . . .	$1,192 72	$39,069 23	$15,222 08
Josiah Stickney Fund, $12,000, amount	700 00		
		1,892 72	
			$40,961 95
			$56,184 03

E. & O. E.

CHARLES E. RICHARDSON, *Treasurer.*

BOSTON, December 31, 1891.

Audited.

H. H. HUNNEWELL,
FRED'K. L. AMES,
WM. H. SPOONER.
Finance Committee.

ASSETS AND LIABILITIES OF THE MASSACHUSETTS HORTICULTURAL SOCIETY,

DECEMBER 31, 1891.

ASSETS.

Real Estate		$250,000 00	
Furniture and Exhibition Ware		4,376 00	
Library		30,646 05	
Stereotype Plates and Copies of History . .		273 00	
Chicago, Burlington & Quincy R.R. Bonds, 7% .		1,500 00	
Kansas City, Clinton & Springfield R.R. Bonds, 5%,		1,980 00	
Cash		16,125 82	
			$304,900 87

LIABILITIES.

Mortgage on Building		$1,000 00	
Josiah Stickney Fund, payable to Harvard College, 1899		12,000 00	
Prize Funds, invested in the Building, viz.:			
Samuel Appleton Fund,	$1,000 00		
John A. Lowell "	1,000 00		
Theodore Lyman "	11,000 00		
Josiah Bradlee "	1,000 00		
Benjamin V. French "	500 00		
H. H. Hunnewell "	2,500 00		
William J. Walker "	2,354 43		
Levi Whitcomb "	500 00		
Benjamin B. Davis "	500 00		
		$20,354 43	
Amounts carried over . . .		$20,354 43	$13,000 00	$304,900 87

Amounts brought over . .		$20,354 43	$13,000 00	$304,900 87
Prize Funds, invested in Bonds, viz.:				
H. H. Hunnewell Fund,	$1,500 00			
Marshall P. Wilder "	1,000 00			
John Lewis Russell "	1,000 00			
		3,500 00		
			23,854 43	
Prizes of 1891 due and unpaid			6,800 00	
				43,654 43
Surplus				$261,246 44

MEMBERSHIP ACCOUNT, DECEMBER 31, 1891.

Number of Life Members per last report . . .	564	
" " " " added during 1891 . . .	15	
		579
Number of Life Members deceased during 1891 . . .	21	
		558
Number of Annual Members per last report . . .	215	
" " " " added during 1891 . .	19	
		234
Number of Annual Members deceased during 1891 . .	4	
" " " " dropped for non-payment of Assessments . .	7	
		11
		223
Present membership		781

INCOME FROM MEMBERSHIP IN 1891.

15 New Life Members, @ $30	$450 00
19 " Annual " @ $10	190 00
Assessments	390 00
	$1,030 00

Dr. *Massachusetts Horticultural Society in account with the Proprietors of the Cemetery of Mt. Auburn.* **Cr.**

For Sales and Improvements within the Cemetery for the year ending December 31, 1891.

To Cost of filling up and improving land at Mt. Auburn for the year ending December 31, 1891, the Massachusetts Horticultural Society being charged with their proportion of the same:		
Glen Avenue	$410 81	
Birch, to Eagle and Cherry Avenues	243 75	
	$654 56	
One quarter of $654.56 is	$163 64	
Balance due Mass. Horticultural Society	5,312 32	
		$5,475 96
		$5,475 96

By Sales in January	$590 00
" " February	1,490 00
" " March	395 00
" " April	3,386 00
" " May	4,391 00
" " June	1,250 00
" " July	1,518 50
" " August	1,215 00
" " September	1,610 60
" " October	1,672 00
" " November	4,635 75
" " December	445 00
	$22,598 85
Net Amt. received from Receiving Tomb	760 00
	$23,358 85
Less Graves repurchased	55 00
	$23,303 85
Deduct for Annual Expenses	1,400 00
	$21,903 85
Mass. Horticultural Society ¼ part of $21,903 85	$5,475 96

E. & O. E.

H. B. MACKINTOSH, *Treasurer.*

DECEMBER 31, 1891.

MASSACHUSETTS HORTICULTURAL SOCIETY

To PROPRIETORS OF THE CEMETERY OF MOUNT AUBURN, *Dr.*

For one-fourth part of the following expenditures for grading new lands for sale during the year 1891:

Glen Avenue.

111¾ days, men	$251 44	
42½ days, man and horse	159 37	
		$410 81

Birch to Eagle and Cherry Avenues.

65 days, man and horse	$243 75	
		$243 75
		$654 56
One-fourth of $654.56 is		$163 64

MOUNT AUBURN, December 31, 1891.

J. W. LOVERING,
Supt. of the Cemetery of Mount Auburn.

I certify the foregoing to be a true copy of improvements for the year 1891, rendered by the Superintendent.

H. B. MACKINTOSH,
Treasurer.

Massachusetts Horticultural Society.

OFFICERS AND STANDING COMMITTEES FOR 1892.

President.

WILLIAM H. SPOONER, of Jamaica Plain.

Vice-Presidents.

CHARLES H. B. BRECK, of Brighton. CHARLES S. SARGENT, of Brookline.
NATHANIEL T. KIDDER, of Milton. FRANCIS H. APPLETON, of Peabody.

Treasurer and Superintendent of the Building.

CHARLES E. RICHARDSON, of Cambridge.

Secretary and Librarian.

ROBERT MANNING, of Salem.[1]

Professor of Botany and Vegetable Physiology.

CHARLES S. SARGENT, of Brookline.

Professor of Entomology.

SAMUEL H. SCUDDER, of Cambridge.

Delegate to the State Board of Agriculture.

E. W. WOOD, of West Newton.

Delegate to the Board of Control of the State Agricultural Experiment Station.

WILLIAM C. STRONG, of Waban.

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[1] Communications for the Secretary, on the business of the Society, should be addressed to him at Horticultural Hall, Boston.

STANDING COMMITTEES.

Executive.

THE PRESIDENT, WILLIAM H. SPOONER, CHAIRMAN.

THE CHAIRMAN OF THE FINANCE COMMITTEE, H. H. HUNNEWELL, *EX OFFICIO.*

WILLIAM C. STRONG. CHARLES H. B. BRECK. JAMES F. C. HYDE.
FREDERICK L. AMES. JOHN C. HOVEY. FRANCIS H. APPLETON.
BENJAMIN C. CLARK.

Finance.

H. HOLLIS HUNNEWELL, OF BOSTON, CHAIRMAN.

WILLIAM H. SPOONER. FREDERICK L. AMES.

Publication and Discussion.

O. B. HADWEN, OF WORCESTER, CHAIRMAN.

WILLIAM H. HUNT. J. D. W. FRENCH.

Establishing Prizes.

CHAIRMAN OF COMMITTEE ON FRUITS, CHAIRMAN.

CHAIRMEN OF COMMITTEES ON PLANTS, FLOWERS, VEGETABLES, AND GARDENS, *EX OFFICIIS.*

CHARLES M. ATKINSON. J. WOODWARD MANNING, JR.

Library.

WILLIAM E. ENDICOTT, OF CANTON, CHAIRMAN.

THE PROFESSOR OF BOTANY AND VEGETABLE PHYSIOLOGY AND THE PROFESSOR OF ENTOMOLOGY, *EX OFFICIIS.*

J. D. W. FRENCH. GEORGE W. HUMPHREY.
NATHANIEL T. KIDDER. EDWIN FAXON.

Gardens.

JOHN G. BARKER, OF JAMAICA PLAIN, CHAIRMAN.

CHAIRMEN OF COMMITTEES ON FRUITS, PLANTS, FLOWERS, AND VEGETABLES, *EX OFFICIIS.*

HENRY W. WILSON. JACKSON DAWSON.

Fruit.

E. W. WOOD, OF WEST NEWTON, CHAIRMAN.

BENJAMIN G. SMITH. O. B. HADWEN. SAMUEL HARTWELL.
CHARLES F. CURTIS. WARREN FENNO. J. WILLARD HILL.

Flowers.

ARTHUR H. FEWKES, OF NEWTON HIGHLANDS, CHAIRMAN.

MICHAEL H. NORTON. E. H. HITCHINGS.
WILLIAM J. STEWART. WILLIAM J. MARTIN.

Plants.

FREDERICK L. HARRIS, OF WELLESLEY, CHAIRMAN.

DAVID ALLAN. JAMES COMLEY.
AZELL C. BOWDITCH. WILLIAM ROBINSON.

Vegetables.

CHARLES N. BRACKETT, OF NEWTON, CHAIRMAN.

CEPHAS H. BRACKETT. VARNUM FROST. JOSEPH H. WOODFORD.
P. G. HANSON. JOHN C. HOVEY. WARREN H. HEUSTIS.

Committee of Arrangements.

JOSEPH H. WOODFORD, OF BOSTON, CHAIRMAN.

CHAIRMEN OF COMMITTEES ON FRUITS, PLANTS, FLOWERS, VEGETABLES, AND GARDENS, *EX OFFICIIS.*

ROBERT FARQUHAR.

MEMBERS FOR LIFE.

Members of the Society and all other persons who may know of deaths, changes in residence, or other circumstances showing that the following list is inaccurate in any particular, will confer a favor by promptly communicating to the Secretary the needed corrections.

Information, or any clew to it, is especially desired in regard to members whose names are marked thus †.

Adams, Luther, Brighton.
Albro, Charles, Taunton.
Alger, R. F., Becket.
Allan, David, Mount Auburn.
Ames, Frank M., Canton.
Ames, Frederick L., North Easton.
Ames, George, Boston.
Ames, Hon. Oliver, Boston.
Ames, Preston Adams, Boston.
Amory, Charles, Boston.
Amory, Frederick, Boston.
Andrews, Charles L., Milton.
Andrews, Frank W., Washington, D.C.
Andros, Milton, San Francisco, Cal.
Appleton, Edward, Reading.
Appleton, Francis H., Peabody.
†Appleton, William S., Boston.
Atkins, Edwin F., Belmont.
Avery, Hon. Edward, Boston.
Ayling, Isaac, M.D., Waltham.

Bancroft, John C., Boston.
Banfield, Francis L., M.D., Worcester.
Barber, J. Wesley, Newton.
Barnard, James M., Malden.
Barnard, Robert M., Everett.
Barnard, Samuel, Belmont.
Barnes, Walter S., Somerville.
Barnes, William H., Boston.
†Barney, Levi C., Boston.
Barratt, James, East Pasadena, Cal.
Barrett, Edwin S., Concord.
Bartlett, Edmund, Newburyport.
Bates, Amos, Hingham.
Bates, Caleb, Kingston.
Beal, Leander, Boston.
Becker, Frederick C., Cambridge.
Beckford, Daniel R., Jr., Dedham.
Beebe, Franklin H., Boston.
Berry, James, Brookline.
Birchard, Charles, Framingham.
Black, James W., Cambridge.
Blake, Arthur W., Brookline.
Blakemore, John E., Roslindale.
Blanchard, John W., Dorchester.
Blaney, Henry, Salem.
Blinn, Richard D., Chicago, Ill.
Bliss, William, Boston.
Bocher, Prof. Ferdinand, Cambridge.
Bockus, Charles E., Dorchester.
Bond, George W., Jamaica Plain.
Botume, John, Wyoming.
Bouvé, Thomas T., Boston.
Bowditch, Azell C., Somerville.
Bowditch, Charles P., Jamaica Plain.
Bowditch, William E., Roxbury.

Bowker, William H., Boston.
Brackett, Cephas H., Brighton.
Brackett, Charles N., Newton.
Bresee, Albert, Hubbardton, Vt.
Brewer, Francis W., Hingham.
Brewer, John Reed, Boston.
†Brigham, William T., Boston.
Brimmer, Martin, Boston.
Brintnall, Benjamin, Charlestown.
Brooks, Francis, West Medford.
Brooks, J. Henry, Milton.
Brown, Alfred S., Jamaica Plain.
Brown, Charles E., Yarmouth, N.S.
Brown, Edward J., Weston.
Brown, George Barnard, Boston.
Brown, George Bruce, Framingham.
Brown, Jacob, Woburn.
Brownell, E. S., Essex Junction, Vt.
Bruce, Nathaniel F., Billerica.
Bullard, John R., Dedham.
Bullard, William S., Boston.
Burnett, Joseph, Southborough.
Burr, Fearing, Hingham.
Burr, Matthew H., Hingham.
Buswell, Edwin W., Brooklyn, N.Y.
Buswell, Frank E., Brooklyn, N.Y.
Butler, Aaron, Wakefield.
Butler, Edward K., Jamaica Plain.
Butterfield, William P., East Lexington.

Cabot, Edward C., Brookline.
Cadness, John, Flushing, N.Y.
Cains, William, South Boston.
Calder, Augustus P., Boston.
Campbell, Francis, Cambridge.
Capen, John, Boston.
Carlton, Samuel A., Boston.
Carr, Hon. John, Roxbury.
†Carruth, Charles, Boston.
Carter, Miss Sabra, Wilmington.
Cartwright, George, Dedham.
Chadbourne, Marshall W., Mount Auburn.
Chamberlain, Chauncey W., Boston.
Chapin, Nathaniel G., Brookline.
Chase, Andrew J., Lynn.
Chase, Daniel E., Somerville.
†Chase, George B., Boston.
Chase, Hezekiah S., Boston.
Chase, William M., Baltimore, Md.
Cheney, Benjamin P., Boston.
Child, Francis J., Cambridge.
Childs, Nathaniel R., Boston.
Choate, Charles F., Cambridge.
Claflin, Hon. William, Newtonville.
Clapp, Edward B., Dorchester.
Clapp, Hon. Eugene H., Roxbury.
Clapp, James H., Dorchester.
Clapp, William C., Dorchester.
Clark, Benjamin C., Boston.
Clark, J. Warren, Rockville.
†Clark, Orus, Boston.
Clarke, Miss Cora H., Jamaica Plain.
Clay, Henry, Dorchester.
Cleary, Lawrence, West Roxbury.
Clement, Asa, Dracut.
Cobb, Albert A., Brookline.
Coburn, Isaac E., Everett.
Codman, Henry Sargent, Brookline.
Codman, James M., Brookline.
Codman, Ogden, Lincoln.
Coffin, G. Winthrop, West Roxbury.
Coffin, William E., Dorchester.
Collamore, Miss Helen, Boston.
Converse, Elisha S., Malden.
Converse, Parker L., Woburn.
Coolidge, Joshua, Mount Auburn.
Copeland, Franklin, West Dedham.
Cowing, Walter H., West Roxbury.
Coy, Samuel I., Boston.
Crawford, Dr. Sarah M., Roxbury.
Crocker, Miss S. H., Boston.
Crosby, George E., West Medford.
†Crowell, Randall H., Chelsea.
Crowninshield, Benjamin W., Boston.
Cummings, Hon. John, Woburn.
Curtis, Charles F., Jamaica Plain.
Curtis, George S., Jamaica Plain.
†Cushing, Robert M., Boston.

†Daggett, Henry C., Boston.
Damon, Samuel G., Arlington.
Dana, Charles B., Wellesley.

Davenport, Edward, Dorchester.
Davenport, George E., Medford.
†Davenport, Henry, Boston.
Davis, John, Lowell.
Dawson, Jackson, Jamaica Plain.
Day, William F., Roxbury.
Dee, Thomas W., Mount Auburn.
Denny, Clarence H., Boston.
Denton, Eben, Dorchester.
Dewson, Francis A., Newtonville.
Dexter, F. Gordon, Boston.
Dickerman, George H., Somerville.
Dike, Charles C., Stoneham.
Dorr, George, Dorchester.
Dove, George W. W., Andover.
Durant, William, Boston.
Durfee, George B., Fall River.
Dutcher, F. J., Hopedale.

Eaton, Horace, Cambridge.
†Eldridge, E. H., Roxbury.
Ellicott, Joseph P., Boston.
Elliot, Mrs. John W., Boston.
Elliott, William H., Brighton.
Endicott, William E., Canton.
Eustis, William C , Hyde Park.
Everett, William, Dorchester.
Ewell, Warren, Dorchester.

Fairchild, Charles, Boston.
Falconer, William, Glencove, N.Y.
Farlow, Lewis H., Newton.
Farquhar, James F. M., Roslindale.
Farquhar, John K. M. L., Roxbury.
Farquhar, Robert, Boston.
Faxon, John, Quincy.
Fenno, J. Brooks, Boston.
Fewkes, Arthur H., Newton Highlands.
Fisher, David, Montvale.
Fisher, James, Roxbury.
†Fisher, Warren, Boston.
Flagg, Augustus, Boston.
Fleming, Edwin, West Newton.
Fletcher, George V., Belmont.
Fletcher, J. Henry, Belmont.
Fletcher, John W., Chelsea.
Flint, David B., Watertown.
Flynt, William N., Monson.
Forster, Edward J., M.D., Boston.
Foster, Francis C., Cambridge.
Fottler, John, Jr., Dorchester.
Fowle, George W., Jamaica Plain.
Fowle, William B., Auburndale.
French, J. D. Williams, Boston.
French, Jonathan, Boston.

Galloupe, Charles W., Swampscott.
Galvin, John, West Roxbury.
†Gardner, Henry N., Mount Auburn.
Gardner, John L., Brookline.
Gibbs, Wolcott, M.D., Newport, R.I.
Gill, George B., Medford.
Gillard, William, Atlantic.
Gilmore, E. W., North Easton.
Gilson, F. Howard, Reading.
Glover, Albert, Boston.
Glover, Joseph B., Boston.
Goddard, A. Warren, Brookline.
Goddard, Joseph, Roxbury.
Goddard, Mrs. Mary T., Newton.
Goodell, L. W., Dwight.
Gorham, James L., Jamaica Plain.
†Gould, Samuel, Boston.
Gray, James, Wellesley.
Gregory, Hon. James J. H., Marblehead.
Greig, George, Toronto, Ontario.
Grey, Benjamin, Malden.
Guild, J. Anson, Brookline.

Hadwen, Obadiah B., Worcester.
Hall, Edwin A., Cambridgeport.
Hall, George A., Chelsea.
Hall, George R., Fort George, Fla.
†Hall, John R., Roxbury.
Hall, Lewis, Cambridge.
Hall, Stephen A., Revere.
Hall, William F., Brookline.
Halliday, William H., South Boston.
Hammond, Gardiner G., New London, Conn.
Hammond, George W., Boston.
Hammond, Samuel, Boston.

Hanson, P. G., Woburn.
†Harding, George W., Arlington.
Harding, Louis B., Stamford, Ct.
Hardy, F. D., Jr., Cambridgeport.
Harrington, Nathan D., Somerville.
Harris, Charles, Cambridge.
Harris, Thaddeus William, A.M., Cambridge.
Hart, William T., Boston.
Hastings, Levi W., Brookline.
Hathaway, Seth W., Marblehead.
Hawken, Mrs. Thomas, Salem.
Hayes, Daniel F., Exeter, N.H.
Hayes, Francis Brown, Lexington.
†Hazeltine, Hazen, Boston.
Hemenway, Augustus, Canton.
Henshaw, Joseph P. B., Boston.
Heywood, Hon. George, Concord.
Hilbourn, A. J., Boston.
Hill, John, Stoneham.
Hitchings, E. H., Malden.
Hittinger, Jacob, Mount Auburn.
Hoar, Samuel, Concord.
Hodgkins, John E., Newcastle, N.H.
Hollis, George W., Grantville.
Hollis, John W., Allston.
Holmes, Edward J., Boston.
Holt, Mrs. Stephen A., Winchester.
Hooper, Thomas, Bridgewater.
Horner, Mrs. Charlotte N.S., Georgetown.
Horsford, Miss Kate, Cambridge.
Hovey, Charles H., East Pasadena, Cal.
Hovey, John C., Cambridgeport.
Hovey, Stillman S., Woburn.
Hubbard, Charles T., Weston.
Hubbard, Gardner G., Cambridge.
Hubbard, James C., Everett.
Humphrey, George W., Dedham.
Hunnewell, Arthur, Wellesley.
Hunnewell, H. Hollis, Wellesley.
Hunnewell, Walter, Wellesley.
Hunt, Franklin, Boston.
Hunt, William H., Concord.
Hyde, James F. C., Newton Highlands.

Jackson, Charles L , Cambridge.
Jackson, Robert T., Dorchester.
Janvrin, William S., Revere.
Jeffries, John, Boston.
Jenks, Charles W., Boston.
Johnson, J. Frank, Boston.
Jose, Edwin H., Cambridgeport.
Joyce, Mrs. E. S., Medford.

Kakas, Edward, West Medford.
Kelly, George B., Jamaica Plain.
Kendall, D. S., Woodstock, Ont.
Kendall, Edward, Cambridgeport.
†Kendall, Joseph R., San Francisco, Cal.
Kendrick, Mrs. H. P., Allston.
Kennard, Charles W., Boston.
Kennedy, George G., M.D., Milton.
Kent, John, Brookline.
†Keyes, E. W., Denver, Col.
Keyes, George, Concord.
Keyes, John M., Concord.
Kidder, Charles A., Southborough.
Kidder, Nathaniel T., Milton.
†Kimball, A. P., Boston.
King, Franklin, Dorchester.
Kingman, Abner A., Brookline.
Kingman, C. D., Middleborough.
Kinney, John M., East Wareham.

Lancaster, Charles B., Newton.
Lane, John, East Bridgewater.
Lawrence, James, Groton.
†Lawrence, John, Boston.
Learned, Charles A., Arlington.
Lee, Charles J., Dorchester.
Lee, Henry, Boston.
Leeson, Joseph R., Newton Centre.
Lemme, Frederick, North Cambridge.
Leuchars, Robert B., Boston.
Lewis, A. S., Framingham.
Lewis, William G., Framingham.
Lincoln, George, Hingham.
Lincoln, Col. Solomon, Boston.
Little, James L., Brookline.
Locke, William H., Belmont.

Lockwood, Rhodes, Boston.
Lodge, Richard W., Swampscott.
†Loftus, John P., North Easton.
Lord, George C., Newton.
Loring, Caleb W., Beverly Farms.
Lovett, George L., West Newton.
†Lowder, John, Watertown.
Lowell, Augustus, Boston.
Luke, Elijah H., Cambridgeport.
Lumb, William, Boston.
Lyman, Theodore, Brookline.
Lyon, Henry, Charlestown.

†Mahoney, John, Boston.
Mann, James F., Ipswich.
Mann, Jonathan, Readville.
Manning, Jacob W., Reading.
Manning, Mrs. Lydia B., Reading.
Manning, Robert, Salem.
Manning, Warren H., Brookline.
Marshall, Frederick F., Chelsea.
Martin, John S., Roxbury.
Matthews, Nathan, Boston.
McCarty, Timothy, Providence, R.I.
McClure, John, Revere.
McWilliam, George, Whitinsville.
Melvin, James C., West Newton.
Merriam, Herbert, Weston.
Merriam, M. H., Lexington.
Merrifield, William T., Worcester.
Merrill, Hon. Moody, Roxbury.
Metivier, James, Cambridge.
Milmore, Mrs. Joseph, Newton Lower Falls.
Minton, James, Boston.
Moore, John H., Concord.
Morrill, Joseph, Jr., Roxbury.
†Morse, Samuel F., Boston.
Morse, William A., Dorchester.
Motley, Thomas, Jamaica Plain.
Mudge, George A., Portsmouth, N.H.
†Munroe, Otis, Boston.

Needham, Daniel, Groton.
Nevins, David, Framingham.
Newman, John R., Winchester.
Newton, Rev. William W., Pittsfield.
Nickerson, Albert W., Marion.
Nickerson, George A., Dedham.
Norton, Charles W., Allston.
Nourse, Benjamin F., Boston

Oakman, Hiram A., North Marshfield.
Osgood, James Ripley, Boston.

Packer, Charles H., Boston.
Paige, Clifton H., Mattapan.
Palmer, Julius A., Jr., Boston.
Park, William T., Boston.
Parker, Augustus, Roxbury.
Parker, Charles W., Boston.
Parkman, Francis, Jamaica Plain.
Partridge, Horace, North Cambridge.
Paul, Alfred W., Dighton.
Peabody, John E., Boston.
Peabody, Col. Oliver W., Milton.
Pearce, John, West Roxbury.
Peck, Lucius T., Dorchester.
Peck, O. H., Denver, Col.
Peck, William G., Arlington.
Peirce, Silas, Boston.
Penniman, A. P., Waltham.
Perkins, Edward N., Jamaica Plain.
†Perry, George W., Malden.
Philbrick, William D., Newton Centre.
Pierce, Dean, Brookline.
Pierce, Henry L., Boston.
Pierce, Samuel B., Dorchester.
Poor, John R., Boston.
Porter, Herbert, Malden.
†Potter, Joseph S., Arlington.
Prang, Louis, Roxbury.
Pratt, Laban, Dorchester.
Pratt, Lucius G., West Newton.
Pratt, Robert M., Boston.
Pratt, William, Winchester.
Pray, Dr. Mark W., Boston.
†Prescott, Eben C., Boston.
†Prescott, William G., Boston.
Prescott, William G., Quincy.
Pringle, Cyrus G., Charlotte, Vt.

Proctor, Thomas P., Jamaica Plain.
Prouty, Gardner, Littleton.
Putnam, Joshua H., Brookline.

Quinby, Hosea M., M.D., Worcester.

Raddin, Everett W., North Cambridge.
Rand, Miss Elizabeth L., Newton Highlands.
Rand, Harry S., North Cambridge.
Rand, Oliver J., Cambridgeport.
Rawson, Warren W., Arlington.
Ray, James F., Franklin.
Ray, James P., Franklin.
Ray, Joseph G., Franklin.
Raymond, Walter, Cambridgeport.
Read, Charles A., Manchester.
Reed, George W., Boston.
Rice, George C., Worcester.
Richards, John J., Boston.
Richardson, Charles E., Cambridge.
Rinn, J. Ph., Boston.
Ripley, Charles, Dorchester.
Robbins, I. Gilbert, Wakefield.
†Robeson, William R., Boston.
Robinson, John, Salem.
Robinson, Joseph B., Allston.
Ross, Henry, Newtonville.
Ross, M. Denman, Forest Hills.
Ross, Waldo O., Boston.
Ruddick, William H., M.D., South Boston.
Russell, George, Woburn.
Russell, Hon. John E., Leicester.
Russell, Walter, Arlington.

†Sampson, George R., London, England.
Sanford, Oliver S., Hyde Park.
Sargent, Charles S., Brookline.
Saville, Richard L., Brookline.
Sawtelle, Eli A., Boston.
Sawyer, Timothy T., Charlestown.
†Scott, Charles, Newton.
Sears, J. Montgomery, Boston.
Shaw, Christopher C., Milford, N.H.
Shorey, John L., Lynn.
Skinner, Francis, Boston.
Smith, Benjamin G., Cambridge.
Smith, Calvin W., Grantville.
Smith, Charles H., Jamaica Plain.
Smith, Charles S., Lincoln.
Smith, Chauncey, Cambridge.
Smith, Edward N., San Francisco.
Smith, George O., Boston.
Smith, James H., Dedham.
Smith, Thomas Page, Waltham.
Snow, Miss Salome H., Brunswick, Me.
Spaulding, Edward, West Newton.
Speare, Alden, Newton Centre.
Springall, George, Malden.
Stetson, Nahum, Bridgewater.
Stewart, William J., Winchester.
Stone, Amos, Charlestown.
Stone, Charles W., Boston.
Stone, George F., Chestnut Hill.
Strong, William C., Waban.
Sturgis, Russell, Manchester.
Sturtevant, E. Lewis, M.D., South Framingham.
Surette, Louis A., Concord.
Swain, Charles E., Roxbury.

Taft, John B., Cambridge.
Tarbell, George G., M.D., Boston.
Taylor, Horace B., Portland, Me.
Temple, Felker L., Somerville.
Thurlow, Thomas C., West Newbury.
Tidd, Marshall M., Woburn.
Tilton, Stephen W., Roxbury.
Todd, John, Hingham.
Tolman, Benjamin, Concord.
†Tolman, Miss Harriet S., Boston.
Torrey, Everett, Charlestown.
Tufts, Arthur W., Roxbury.
†Turner, John M., Dorchester.
Turner, Roswell W., Dorchester.

Underwood, William J., Belmont.

Vanderwoerd, Charles, Waltham.

Vinal, Miss Mary L., Somerville.

Wainwright, William L., Braintree.
Wakefield, E. H., Cambridge.
Walcott, Henry P., M.D., Cambridge.
Wales, George O., Braintree.
Walker, Edward C. R., Roxbury.
Walker, Miss Mary S., Waltham.
Walley, Mrs. W. P., Boston.
Walton, Daniel G., Wakefield.
Ward, Francis Jackson, Roxbury.
Ward, John, Newton Centre.
Wardwell, William H., Brookline.
Ware, Benjamin P., Clifton.
Warren, George W., Boston.
Washburn, Andrew, Hyde Park.
Waters, Edwin F., Boston.
Waters, Dr. George F., Boston.
Watson, Benjamin M., Jr., Jamaica Plain.
Watson, Thomas A., East Braintree.
Watts, Isaac, Waverly.
Webber, Aaron D., Boston.
Weld, Christopher Minot, Jamaica Plain.
Weld, George W., Newport, R.I.
Weld, Moses W., M.D., Boston.
Weld, Richard H., Boston.
Weld, William G., Boston.
West, Mrs. Maria L., Neponset.
Weston, Leonard W., Lincoln.
Weston, Seth, Revere.
Wheeler, Frank, Concord.
Wheelwright, A. C., Brookline.
Whitcomb, William B., Medford.
White, Edward A., Boston.
White, Francis A., Brookline.
White, Joseph H., Brookline.
†Whitely, Edward, Cambridgeport.
Whitten, Charles V., Dorchester.
†Whytal, Thomas G., New York, N.Y.
Wilbur, George B., West Newton.
Wilder, Edward Baker, Dorchester.
Wilder, Henry A., Malden.
Willard, E. W., Newport, R.I.
Willcutt, Levi L., West Roxbury.
Williams, Aaron D., Boston.
Williams, Benjamin B., Boston.
Williams, Philander, Taunton.
Willis, George W., Chelsea.
Willis, Joshua C., Roxbury.
Wilson, Col. Henry W., Boston.
Wilson, William Power, Boston.
Winthrop, Robert C., Jr., Boston.
Wood, Charles G., Boston.
Wood, Luke H., Marlborough.
Wood, R. W., M.D., Jamaica Plain.
Wood, William K., West Newton.
Woods, Henry, Boston.
Woodward, Royal, Brookline.
Wright, George C., West Acton.
Wyman, Oliver B., Shrewsbury.

ANNUAL MEMBERS.

Members of the Society and all other persons who may know of deaths, changes of residence, or other circumstances showing that the following list is inaccurate in any particular, will confer a favor by promptly communicating to the Secretary the needed corrections.

Abbot, Samuel L., M.D., Boston.
Allen, Charles L., Floral Park, N.Y.
Arnold, Mrs. Anna E., Newton.
Atkinson, Charles M., Brookline.
Atkinson, Edward, Brookline.
Atkinson, William B., Newburyport.

Bacon, Augustus, Roxbury.
Badlam, William H., Dorchester.
Barker, John G., Jamaica Plain.
Beard, Edward L., Cambridge.
Beer, Carl, Bangor, Maine.
Benedict, Washington G., Boston.
Bigelow, Arthur J., Eastlake, Worcester.
Bird, John L., Dorchester.
Bird, Mrs. Lewis J., Roxbury.
Bliss, Benjamin K., East Bridgewater.
Bock, William A., North Cambridge.
Bolles, Matthew, Boston.
Bolles, William P., Roxbury.
Bolton, John B., Somerville.
Bowditch, James H., Brookline.
Boyden, Clarence F., Taunton.
Breck, Charles H., Newton.
Breck, Charles H. B., Brighton.
Brooks, George, Brookline.
Brown, David H., West Medford.
Butler, Edward, Wellesley.
Buxton, Mrs. Rose, Peabody.

Carroll, James T., Chelsea.
Carter, Miss Maria E., Woburn.
Carter, Mrs. Sarah D. J., Wilmington.
Chaffin, John C., Newton.
Chase, Joseph S., Malden.
Chase, Leverett M., Roxbury.
Cheney, Amos P., Natick.
Chubbuck, Isaac Y., Roxbury.
Clapp, Henry L., Roxbury.
Clark, Joseph, Manchester.
Clark, Theodore M., Newtonville.
Collins, Frank S., Malden.
Comley, James, Lexington.
Coolidge, David H., Jr., Boston.
Coolidge, Sumner, Mt. Auburn.
Crafts, William A., Boston.
Crosby, J. Allen, Jamaica Plain.
Curtis, Joseph H., Boston.

Davenport, Albert M., Watertown.
Davis, Frederick, Saxonville.
Davis, Frederick S., West Roxbury.
Davis, Thomas M., Cambridgeport.
De Mar, John A., Brighton.
Dolbear, Mrs. Alice J., College Hill.
Doliber, Thomas, Brookline.
Doran, Enoch E., Brookline.
Doyle, William E., East Cambridge.
Duffley, Daniel, Brookline.

Eaton, Jacob, Cambridgeport.
Endicott, Miss Charlotte M., Canton.

Faxon, Edwin, Jamaica Plain.
Faxon, Marshall B., Boston.
Felton, Arthur W., West Newton.
Fenno, Warren, Revere.
Fisher, Sewall, Framingham.
Forbes, William H., Jamaica Plain.
Foster, Joshua T., Medford.
Frohock, Roscoe R., Malden.
Frost, Artemas, Belmont.
Frost, George, West Newton.
Frost, Varnum, Belmont.
Frost, Warren S., Belmont.
Fuller, T. Otis, Needham.

Gage, Alfred P., Arlington.
Gibbon, Mrs. James A., Brookline.
Gilbert, Samuel, Boston.
Gill, Mrs. E. M., Medford.
Gleason, Herbert, Malden.
Goddard, Thomas, Boston.
Grant, Charles E., Concord.
Guerineau, Louis, Cambridge.

Haile, Hon. William H., Springfield.
Hall, Charles H., M.D., Boston.
Hall, Stacy, Boston.
Hall, William T., Revere.
Hamlin, Delwin A., Allston.
Hanks, Mrs. C. Stedman, Manchester.
Hargraves, William J., Jamaica Plain.
Harris, Miss Ellen M., Jamaica Plain.
Harris, Frederick L., Wellesley.
Hartwell, Samuel, Lincoln,
Harwood, George S., Newton.
Henshaw, Samuel, West Brighton, N Y.
Hersey, Alfred H., Hingham.
Hersey, Edmund, Hingham.
Heustis, Warren H., Belmont.
Hews, Albert H., North Cambridge.
Hill, Benjamin D., Peabody.
Hill, Edwin S., Clarendon Hills.
Hill, J. Willard, Belmont.
Hobbs, George M., Boston.
Hollis, George, South Weymouth.
Houghton, George S., Auburndale.
Hunt, Henry C., Newton.
Huston, Miss Katharine W., Roxbury.

Jameson, G. W., East Lexington.
Jordan, Hon. Jediah P., Roxbury.

Kendall, Dr. W. G., Atlantic.
Kenrick, Miss Anna C., Newton.
Kidder, Francis H., Medford.

Lamprell, Simon, Marblehead.
Lancaster, Mrs. E. M., Roxbury.
Langmaid, Mrs. Mary, Somerville.
Lawrence, Henry S., Roxbury.
Lawrence, Sidney, East Lexington.
Lee, Francis H., Salem.
Lomax, George H., Somerville.
Lombard, Richard T., Wayland.
Loring, Charles G., Boston.
Loring, John A., North Andover.
Lothrop, Thornton K., Boston.
Loud, Mrs. Mary E., Roxbury.
Lougee, Miss Susan C., Roxbury.
Low, Hon. Aaron, Hingham.
Lowell, John, Newton.
Lunt, William W., Hingham.

Manda, W. A., Short Hills, N.J.
Manning, A. Chandler, Reading.
Manning, J. Woodward, Reading.
Markoe, George F. H., Roxbury.
Martin, William J., Milton.
Maxwell, Charles E., Boston.
May, F. W. G., Boston.
McDermott, Andrew, Roxbury.
McIntosh, Aaron S., Roxbury.
McLaren, Anthony, Forest Hills.
Meriam, Horatio C., D.M.D., Salem.
Merrill, John Jay, Roxbury.
Merrill, Capt. S. A., Wollaston Heights.

Muzzey, Rev. Artemas B., Cambridge.

Nightingale, Rev. Crawford, Dorchester.
Norton, Edward E., Boston.
Norton, Michael H., Boston.
Norton, Patrick, Boston.

Olmsted, Frederick Law, Brookline.

Park, William D., Boston.
Park, William P., West Boxford.
Parker, George A., Halifax.
Parker, John, Medford.
Peirce, George H., Concord.
Peirce, Herbert H.D., Cambridge.
Petremant, Robert, Dorchester.
Pitcher, James R., Short Hills, N.J.
Plimpton, Willard P., West Newton.
Power, Charles J., South Framingham.
Prichard, Joseph V., Boston.
Purdie, George A., Wellesley Hills.
Putnam, Charles A., Salem.

Randall, Macey, Stoughton.
Rich, William E. C., Roxbury.
Rich, William P., Chelsea.
Richards, Mrs. P. D., West Medford.
Robbins, Oliver R., Weston.
Robinson, Nathan D., Roxbury.
Robinson, William, North Easton.
Ross, Charles W., Newtonville.

Saunders, Miss Mary T., Salem.
Sawtell, J. M., Fitchburg.
Schmitt, George A., Boston.
Scott, Augustus E., Lexington.
Scudder, Samuel H., Cambridge.
Seaver, Edwin P., LL.D., Newton Highlands.
Sharples, Stephen P., Cambridge.
Shattuck, Frederick R., Roxbury.
Shedd, Abraham B., Waltham.
Sheppard, Edwin, Lowell.
Snow, Eugene A., Melrose.
Snow, Francis B., Dorchester.
Southworth, Edward, Quincy.
Spencer, Aaron W., Boston.
Spooner, William H., Jamaica Plain.
Squire, Miss Esther A., North Cambridge.
Squire, John P., Arlington.
Stearns, Mrs. Charles A., East Watertown.
Stearns, Charles H., Brookline.
Stevens, Miss Mary O., North Andover.
Stone, Samuel G., Charlestown.
Storer, Charles, Natick.
Story, Miss Sarah W., Brighton.
Swan, Charles W., M.D., Boston.
Sweet, Everell F., Malden.

Tailby, Joseph, Wellesley.
Talbot, Josiah W., Norwood.
Teele, William H., West Acton.
Terry, Rev. Calvin, North Weymouth.
Tobey, S. Edwin, Boston.
Torrey, Bradford, Boston.
Tousey, Prof. William G., College Hill.
Travis, Charles B., Brighton.
Turner, Nathaniel W., Boston.

Vaughan, J. C., Chicago, Ill.

Walker, William P., Somerville.
Warren, Samuel H., Weston.
Welch, Patrick, Dorchester.
Weld, Charles E., Roslindale.
Wells, Benjamin T., Newtonville.
Weston, Mrs. L. P., Danvers.
Wheatland, Henry, M.D., Salem.
Wheeler, James, Brookline.
White, George A., Roxbury.
White, W. Henry, Lowell.
Whitney, Joel, Winchester.
Whiton, Starkes, Hingham Centre.
Whittier, Hon. Charles, Roxbury.

Wilcox, George D., M.D., Providence, R.I.
Wilmarth, Henry D., Jamaica Plain.
Wilson, B. Osgood, Watertown.
Wilson, George W., Malden.
Winter, William C., Mansfield.
Wolcott, Mrs. Henrietta L. T., Dedham.
Wood, Mrs. Anna D., West Newton.
Wood, Elijah A., West Newton.
Wood, E. W., West Newton.
Woodford, Joseph H., Boston.
Worthington, Roland, Roxbury.
Young, Charles S., Newton Centre.
Young, E. Bentley, Boston.

Zirngiebel, Denys, Needham.

EXTRACTS FROM THE CONSTITUTION AND BY-LAWS.

SECTION XXVII. — Life Members.

The payment of thirty dollars shall constitute a Life Membership, and exempt the member from all future assessments. And any subscription member, having paid all dues, may become a Life Member by the payment of twenty dollars in addition thereto.

SECTION XXVIII. — Admission Fee and Annual Assessment.

Every subscription member, before he receives his diploma, or exercises the privileges of a member, shall pay the sum of ten dollars as an admission fee, and shall be subject afterwards to an annual assessment of two dollars.

SECTION XXX. — Discontinuance of Membership.

Any member may withdraw from the Society, on giving notice to the Treasurer and paying the amount due from him. Any member who shall neglect for the space of two years to pay his annual assessment, after due notice from the Treasurer, shall cease to be a member. The Treasurer shall give notice of such withdrawals or discontinuances to the Secretary, who shall erase such members' names from the list.

The attention of Annual Members is particularly called to Section XXX.

HONORARY MEMBERS.

Members and correspondents of the Society and all other persons who may know of deaths, changes of residence, or other circumstances showing that the following list is inaccurate in any particular, will confer a favor by promptly communicating to the Secretary the needed corrections.

Information, or any clew to it, is especially desired in regard to Joseph Maxwell, *elected in* 1830, *and* George W. Smith, *elected in* 1851. *The names of those known to be deceased are marked with a star.*

*Benjamin Abbott, LL.D., Exeter, N.H.
*John Abbott, Brunswick, Me.
*Hon. John Quincy Adams, LL.D., late President of the United States, Quincy.
*Professor Louis Agassiz, Cambridge.
*William T. Aiton, late Curator of the Royal Gardens, Kew, England.
*Hon. Thomas Allen, late President of the St. Louis Horticultural Society, St. Louis, Mo., and Pittsfield, Mass.
*Hon. Samuel Appleton, Boston.
*Hon. James Arnold, New Bedford.
*Edward Nathaniel Bancroft, M.D., late President of the Horticultural and Agricultural Society of Jamaica.
*Hon. Philip P. Barbour, Virginia.
*Don Angel Calderon de la Barca, late Spanish Minister at Washington.
*Robert Barclay, Bury Hill, Dorking, Surrey, England.
*James Beekman, New York.
*L'Abbé Berlèse, Paris.
*Nicholas Biddle, Philadelphia.
*Dr. Jacob Bigelow, Boston.
*Mrs. Lucy Bigelow, Medford.
*Le Chevalier Soulange Bodin, late Secrétaire Général de la Société d'Horticulture de Paris.
Hon. George S. Boutwell, Groton.
*Josiah Bradlee, Boston.
*Hon. George N. Briggs, Pittsfield.
*Hon. James Buchanan, late President of the United States, Lancaster, Pa.

*Hon. Jesse Buel, late President of the Albany Horticultural Society, Albany, N.Y.
*Hon. Edmund Burke, late Commissioner of Patents, Washington, D.C.
*Augustin Pyramus de Candolle, Geneva, Switzerland.
*Hon. Horace Capron, late U.S. Commissioner of Agriculture, Washington, D.C.
*Commodore Isaac Chauncey, U.S. Navy, Brooklyn, N.Y.
*Ward Chipman, late Chief Justice of New Brunswick, St. John.
*Lewis Clapier, Philadelphia.
*Hon. Henry Clay, Lexington, Ky.
H. W. S. Cleveland, Minneapolis, Minn.
*Admiral Sir Isaac Coffin, Bart., England.
*Zaccheus Collins, late President of the Pennsylvania Horticultural Society, Philadelphia.
*Roswell L. Colt, Paterson, N.J.
*Caleb Cope, late President of the Pennsylvania Horticultural Society, Philadelphia.
*William Coxe, Burlington, N.J.
*John P. Cushing, Watertown.
*Charles W. Dabney, late U.S. Consul, Fayal, Azores.
*Hon. John Davis, LL.D., Boston.
*Sir Humphry Davy, London.
*Gen. Henry Alexander Scammel Dearborn, Roxbury.
*James Dickson, late Vice-President of the Horticultural Society of London.
*Mrs. Dorothy Dix, Boston.
*Capt. Jesse D. Elliot, U.S. Navy.
*Hon. Stephen Elliot, LL.D., Charleston, S.C.
*Hon. Henry L. Ellsworth, late Commissioner of Patents, Washington, D.C.
*Allyn Charles Evanson, late Secretary of the King's County Agricultural Society, St. John, N.B.
*Hon. Edward Everett, LL.D., Boston.
*Hon. Horace Everett, Vermont.
*F. Faldermann, late Curator of the Imperial Botanic Garden, St. Petersburg.
Hon. Joseph S. Fay, Wood's Holl.
*Hon. Millard Fillmore, late President of the United States, Buffalo, N.Y.
*Dr. F. E. Fischer, late Professor of Botany at the Imperial Botanic Garden, St. Petersburg, Russia.
*Hon. Theodore Frelinghuysen, late President of the American Agricultural Society, New Brunswick, N.J.
*Joseph Gales, Jr., late Vice-President of the Horticultural Society, Washington, D.C.
*George Gibbs, New York.
*Stephen Girard, Philadelphia.

*Hon. Robert T. Goldsborough, Talbot County, Md.
*Ephraim Goodale, South Orrington, Me.
*Mrs. Rebecca Gore, Waltham.
*Hon. John Greig, late President of the Domestic Horticultural Society, Canandaigua, N.Y.
*Mrs. Mary Griffith, Charlieshope, N.J.
*Gen. William Henry Harrison, late President of the United States, North Bend, O.
*S. P. Hildreth, M.D., Marietta, O.
*Thomas Hopkirk, late President of the Glasgow Horticultural Society.
*David Hosack, M.D., late President of the New York Horticultural Society.
*Lewis Hunt, Huntsburg, O.
*Joseph R. Ingersoll, late President of the Pennsylvania Horticultural Society, Philadelphia.
*Gen. Andrew Jackson, late President of the United States, Nashville, Tenn.
*Mrs. Martha Johonnot, Salem.
*Jared Potter Kirtland, M.D., LL.D., East Rockport, O.
*Thomas Andrew Knight, late President of the Horticultural Society of London.
*Gen. La Fayette, La Grange, France.
*Le Comte de Lasteyrie, late Vice-President of the Horticultural Society of Paris.
Major L. A. Huguet-Latour, M.P., Montreal, Can.
*Baron Justus Liebig, Giessen, Germany.
*Professor John Lindley, late Secretary of the Royal Horticultural Society, London.
*Franklin Litchfield, late U.S. Consul at Puerto Cabello, Venezuela.
*Joshua Longstreth, Philadelphia.
*Nicholas Longworth, Cincinnati, O.
*Jacob Lorillard, late President of the New York Horticultural Society.
*John Claudius Loudon, London.
*Hon. John A. Lowell, Boston.
*Baron Charles Ferdinand Henry von Ludwig, late Vice-President of the South African Literary and Scientific Institution, Cape Town, Cape of Good Hope.
*Hon. Theodore Lyman, Brookline.
Col. Theodore Lyman, Brookline.
*Hon. James Madison, late President of the United States, Montpelier, Va.
*Mrs. Charlotte Maryatt, Wimbledon, near London.
Joseph Maxwell, Rio Janeiro.
*D. Smith McCauley, late U.S. Consul-General at Tripoli, Philadelphia.
*Hon. Isaac McKim, late President of the Horticultural Society of Maryland, Baltimore.
Rev. James H. Means, Dorchester.
*James Mease, M.D., Philadelphia.

*Lewis John Mentens, Brussels, Belgium.
*Hon. Charles F. Mercer, Virginia.
*François André Michaux, Paris.
Donald G. Mitchell, New Haven, Conn.
*Samuel L. Mitchill, M.D., LL.D., New York.
*Hon. James Monroe, late President of the United States, Oak Hill, Va.
*Alfred S. Monson, M.D., late President of the New Haven Horticultural Society, New Haven, Conn.
*Hon. A. N. Morin, Montreal, Can.
*Théodore Mosselmann, Antwerp, Belgium.
Baron R. Von Osten Sacken, Heidelberg, Germany.
*Baron Ottenfels, late Austrian Minister to the Ottoman Porte.
*John Palmer, Calcutta.
*Hon. Joel Parker, LL.D., Cambridge.
Samuel B. Parsons, Flushing, N.Y.
Samuel R. Payson, Boston.
*Hon. Thomas H. Perkins, Brookline.
*Antoine Poiteau, late Professor in the Institut Horticole de Fromont.
*Hon. James K. Polk, late President of the United States, Nashville, Tenn.
*John Hare Powel, Powelton, Pa.
*Henry Pratt, Philadelphia.
*William Prince, Flushing, N.Y.
*Rev. George Putnam, D.D., Roxbury.
*Col. Joel Rathbone, late President of the Albany and Rensselaer Horticultural Society, Albany, N.Y.
*Archibald John, Earl of Rosebery, late President of the Caledonian Horticultural Society.
Hon. Jeremiah Rusk, Secretary of Agriculture, Washington, D.C.
*Joseph Sabine, late Secretary of the Horticultural Society of London.
*Don Ramon de la Sagra, Havana, Cuba.
*Henry Winthrop Sargent, Fishkill, N.Y.
*Sir Walter Scott, Abbotsford, Scotland.
*John Shepherd, late Curator of the Botanic Garden, Liverpool, England.
*John S. Skinner, late Editor of the American Farmer, Baltimore, Md.
George W. Smith, Boston.
*Stephen H. Smith, late President of the Rhode Island Horticultural Society.
*Hon. Charles Sumner, Boston.
*Hon. John Taliaferro, Virginia.
*Gen. James Talmadge, late President of the American Institute, New York.
*Gen. Zachary Taylor, late President of the United States, Baton Rouge, La.
*James Thacher, M.D., Plymouth.
John J. Thomas, Union Springs, N. Y.
*James W. Thompson, M.D., Wilmington, Del.

*Grant Thorburn, New York.
*M. Du Petit Thouars, Paris.
*Le Vicomte Héricart De Thury, late President of the Horticultural Society of Paris.
*Mons. Tougard, late President of the Horticultural Society of Rouen, France.
*Gen. Nathan Towson, late President of the Horticultural Society, Washington, D.C.
*Hon. John Tyler, late President of the United States, Williamsburg, Va.
*Rev. Joseph Tyso, Wallingford, England.
*Hon. Martin Van Buren, late President of the United States, Kinderhook, N.Y.
*Federal Vanderburg, M.D., New York.
*Jean Baptiste Van Mons, M.D., Brussels, Belgium.
*Gen. Stephen Van Rensselaer, Albany, N.Y.
*Joseph R. Van Zandt, Albany, N.Y.
*Benjamin Vaughan, M.D., Hallowell, Me.
*Petty Vaughan, London.
*Rev. N. Villeneuve, Montreal, Can.
*Pierre Philippe André Vilmorin, Paris.
*James Wadsworth, Geneseo, N.Y.
*Nathaniel Wallich, M.D., late Curator of the Botanic Garden, Calcutta.
*Malthus A. Ward, M.D., late Professor in Franklin College, Athens, Ga.
*Hon. Daniel Webster, Marshfield.
*Hon. John Welles, Boston.
*Jeremiah Wilkinson, Cumberland, R.I.
Hon. Robert C. Winthrop, Boston.
*Frederick Wolcott, Litchfield, Conn.
*Ashton Yates, Liverpool, England.
*Lawrence Young, late President of the Kentucky Horticultural Society, Louisville.

CORRESPONDING MEMBERS.

Members and correspondents of the Society and all other persons who may know of deaths, changes of residence, or other circumstances showing that the following list is inaccurate in any particular, will confer a favor by promptly reporting to the Secretary the needed corrections.

Information, or any clew to it, is especially desired in regard to Alexander Burton, *elected in* 1829, S. Reynolds, M.D., 1832, *and* Francis Summerest, 1833. *The names of those known to be deceased are marked with a star.*

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*John Adlum, Georgetown, D.C.
*Don Francisco Aguilar y Leal, late U.S. Vice-Consul at Maldonado, Banda Oriental del Uruguay.
*Mons. Alfroy, Lieusaint, France.
*James T. Allan, late President of the Nebraska State Horticultural Society, Omaha.
Anthony B. Allen, Plainfield, N.J.
*Rev. Thomas D. Anderson, D.D., South Boston.
Édouard André, Redacteur en chef de la Revue Horticole, Paris, France.
*Thomas Appleton, late U.S. Consul at Leghorn, Italy.
*Col. Thomas Aspinwall, late U.S. Consul at London, Brookline.
*P. M. Augur, State Pomologist, Middlefield, Conn.
Professor L. H. Bailey, Jr., Cornell University, Ithaca, N.Y.
*Isaac Cox Barnet, late U.S. Consul at Paris.
*Patrick Barry, late Vice-President of the American Pomological Society, Rochester, N.Y.
*Augustine Baumann, Bolwiller, Alsace.
*Eugène Achille Baumann, Rahway, N.J.
*Joseph Bernard Baumann, Bolwiller, Alsace.
Napoleon Baumann, Bolwiller, Alsace.
D. W. Beadle, St. Catherine's, Ontario.
Professor William J. Beal, Lansing, Michigan.
*Noel J. Becar, Brooklyn, N.Y.
*Edward Beck, Worton College, Isleworth, near London.
*Rev. Henry Ward Beecher, Peekskill, N.Y.
*Louis Édouard Berckmans, Rome, Ga.
Prosper J. Berckmans, Augusta, Ga.

CHARLES E. BESSEY, Ph.D., Industrial College of the University of Nebraska, Lincoln.
*ALEXANDER BIVORT, late Secretary of the Société Van Mons, Fleurus, Belgium.
*TRIPET LE BLANC, Paris.
DR. CH. BOLLE, Berlin, Prussia.
*CHARLES D. BRAGDON, Pulaski, Oswego Co., N.Y.
*WILLIAM D. BRINCKLÉ, M.D., Philadelphia.
*GEORGE BROWN, late U. S. Commissioner to the Sandwich Islands, Beverly.
JOHN CROUMBIE BROWN, LL.D., Haddington, Scotland.
*JOHN W. BROWN, Fort Gaines, Ga.
*DR. NEHEMIAH BRUSH, East Florida.
*ARTHUR BRYANT, SR., late President of the Illinois State Horticultural Society, Princeton.
PROFESSOR J. L. BUDD, Secretary of the Iowa Horticultural Society, Ames.
*ROBERT BUIST, Philadelphia.
*DR. E. W. BULL, Hartford, Conn.
WILLIAM BULL, Chelsea, England.
*REV. ROBERT BURNET, Ex-President of the Ontario Fruit Growers' Association, Milton.
ALEXANDER BURTON, United States Consul at Cadiz, Spain, Philadelphia.
ISIDOR BUSH, Bushberg, Jefferson Co., Mo.
GEORGE W. CAMPBELL, President of the Ohio State Horticultural Society, Delaware, O.
*FRANCIS G. CARNES, New York.
*COL. ROBERT CARR, Philadelphia.
*REV. JOHN O. CHOULES, D.D., Newport, R.I.
*REV. HENRY COLMAN, Boston.
*JAMES COLVILL, Chelsea, England.
MAXIME CORNU, Directeur du Jardin des Plantes, Paris, France.
BENJAMIN E. COTTING, M.D., Boston.
*SAMUEL L. DANA, M.D., Lowell.
*J. DECAISNE, late Professeur de Culture au Muséum d'Histoire Naturelle, Jardin des Plantes, Paris.
*JAMES DEERING, Portland, Me.
*H. F. DICKEHUT.
*SIR C. WENTWORTH DILKE, Bart., London.
*HON. ALLEN W. DODGE, Hamilton.
REV. H. HONYWOOD D'OMBRAIN, Westwell Vicarage, Ashford, Kent, England.
ROBERT DOUGLAS, Waukegan, Ill.
*ANDREW JACKSON DOWNING, Newburg, N.Y.
*CHARLES DOWNING, Newburg, N.Y.
MALCOLM DUNN, Dalkeith, Scotland.
W. T. THISELTON DYER, C.M.G., F.R.S., Director of the Royal Botanic Gardens, Kew, England.

PARKER EARLE, President of the American Horticultural Society, Cobden, Ill.

*F. R. ELLIOTT, late Secretary of the American Pomological Society, Cleveland, O.

GEORGE ELLWANGER, Rochester, N.Y.

HENRY JOHN ELWES, F.L.S., F.Z.S., Preston Hall, Cirencester, England.

*GEORGE B. EMERSON, LL.D., Winthrop.

*EBENEZER EMMONS, M.D., Williamstown.

*ANDREW H. ERNST, Cincinnati, O.

WILLIAM G. FARLOW, M.D., Professor of Cryptogamic Botany, Harvard University, Cambridge.

*NATHANIEL FELLOWS, Cuba.

*HENRY J. FINN, Newport, R.I.

*WILLARD C. FLAGG, late Secretary of the American Pomological Society, Moro, Ill.

*MICHAEL FLOY, late Vice-President of the New York Horticultural Society, New York.

*JOHN FOX, Washington, D.C.

*HON. RUSSELL FREEMAN, Sandwich.

ANDREW S. FULLER, Ridgewood, N.J.

*HENRY WELD FULLER, Roxbury.

HON. ROBERT W. FURNAS, President of the Nebraska State Horticultural Society, Brownville.

*AUGUSTIN GANDE, late President of the Horticultural Society, Department of the Sarthe, France.

*ROBERT H. GARDINER, Gardiner, Me.

*BENJAMIN GARDNER, late U.S. Consul at Palermo, Sicily.

*CAPT. JAMES T. GERRY, U.S. Navy.

*CHARLES GIBB, late Corresponding Secretary of the Fruit Growers' Association, Abbottsford, Quebec.

*ABRAHAM P. GIBSON, late U.S. Consul at St. Petersburg.

*R. GLENDINNING, Chiswick, near London.

CHARLES A. GOESSMANN, Ph.D., Director of the State Agricultural Experiment Station, Amherst.

PROFESSOR GEORGE L. GOODALE, Cambridge.

*GEORGE W. GORDON, late U.S. Consul at Rio Janeiro, Boston.

*PROFESSOR ASA GRAY, Cambridge.

OBADIAH B. HADWEN, Ex-President of the Worcester County Horticultural Society, Worcester.

*CHARLES HENRY HALL, New York.

*ABRAHAM HALSEY, late Corresponding Secretary of the New York Horticultural Society, New York.

*DR. CHARLES C. HAMILTON, late President of the Fruit Growers' Association and International Show Society of Nova Scotia, Cornwallis.

*REV. THADDEUS MASON HARRIS, D.D., Dorchester.

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